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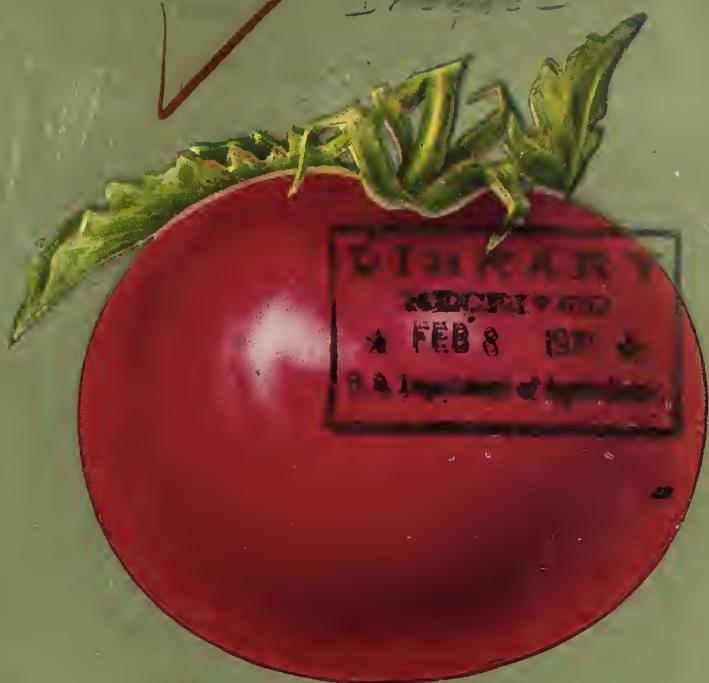


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M. & S. Strain Detroit  
Dark Red

Pkg. 10c; 1 oz. 15c;  $\frac{1}{4}$  lb. 35c;  
1 lb. \$1.25; All Postpaid



M. & S. Early Wonder

Pkg. 25c;  $\frac{1}{2}$  oz. 40c; 1 oz. 75c; 2 ozs. \$1.25;  
 $\frac{1}{4}$  lb. \$2.25; 1 lb. \$8.00; All Postpaid

1928  
*Meyer Seed Company's  
Garden Book  
18<sup>th</sup> Edition*



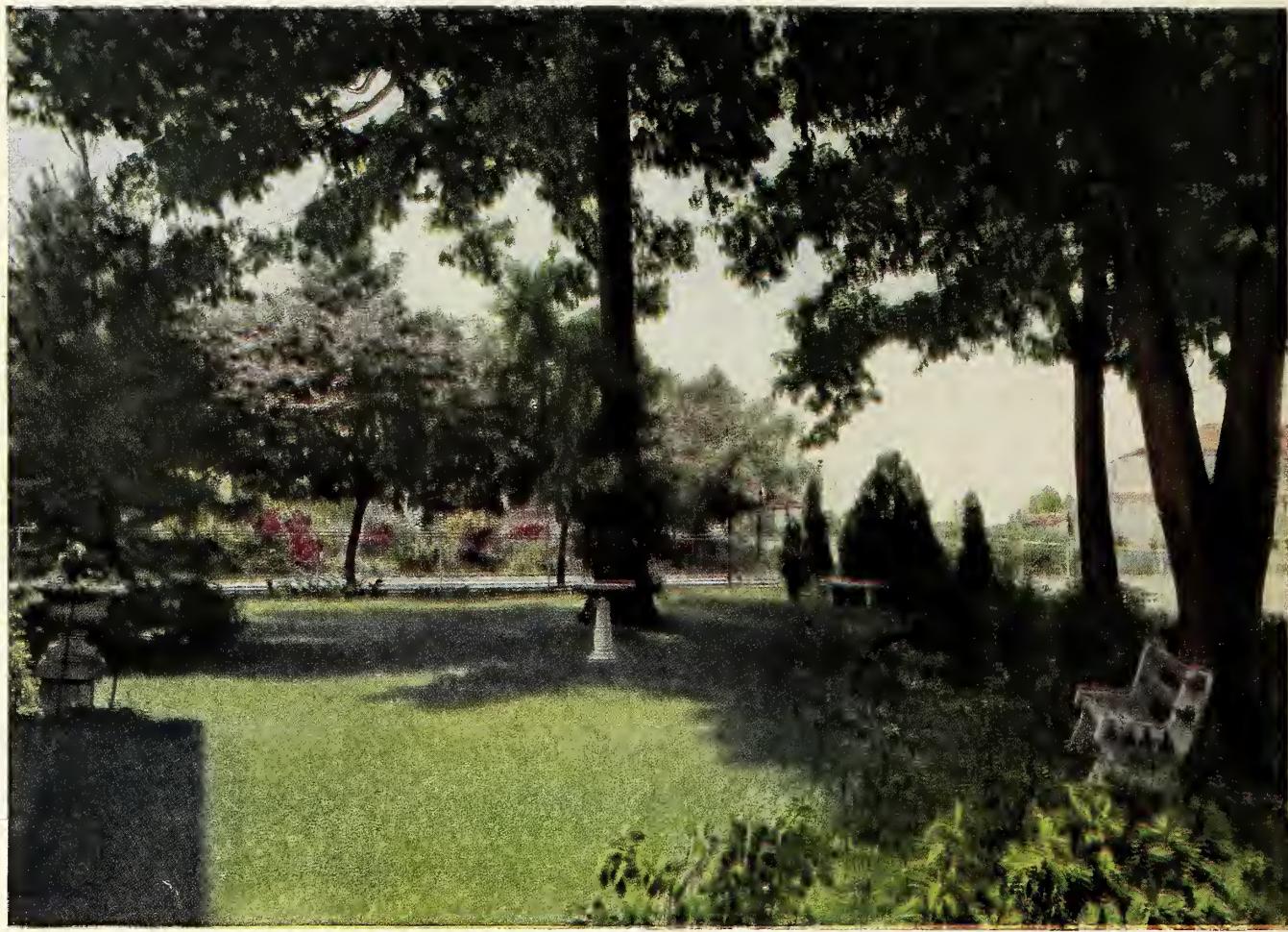
THE MEYER SEED Co.

34-36 LIGHT ST.  
BALTIMORE — MARYLAND  
PLAZA 6170--6171

# M. & S. Roland Park Lawn Grass Seed

Is Backed Up by an Eighteen-Year Reputation

WE SELL GRASS SEED IN ANY QUANTITY, BY WEIGHT ONLY  
A "KEEP OFF THE GRASS" Sign Free With Every 5-Pound and Over Purchase.



## WHAT IS GRASS?

Grass is the forgiveness of nature—her constant benediction. Fields trampled with battle, saturated with blood, torn with the ruts of cannon, grow green again with grass—and carnage is forgotten. Streets abandoned by traffic become grass-grown like rural lanes and are obliterated. Forests decay, harvests perish, flowers vanish but the grass is immortal. Beleaguered by the sullen hosts of winter, it withdraws into the impregnable fortress of its subterranean vitality and emerges upon the first solicitation of spring. Sown by winds, the wandering birds, propagated by the subtle horticulture of the elements which are its ministers and servants, it softens the rude outline of the world. Its tenacious fibre holds the earth in place and prevents its soluble components from washing into the wasting sea. It invades the solitude of deserts, climbs the inaccessible slopes and forbidden pinnacles of mountains, modifies climates and determines the history, character and destiny of nations. Unobtrusive and patient, it has immortal vigor and aggression. Banished from the thoroughfares and the fields, it abides its time to return and when vigilance is relaxed, or the dynasty has perished it silently resumes the throne from which it has been expelled, but which it never abdicates. It bears no blazonry of bloom to charm the senses with fragrance or splendor but its homely hue is more enchanting than the lily or the rose. It yields no fruit in earth or air, and yet should its harvest fail for a single year famine would depopulate the world.

**M. & S. ROLAND PARK LAWN GRASS** is made from our own formula, and composed of grasses which are adapted for the purpose of producing turf which retains its rich green color and velvet appearance throughout the entire summer and fall. In making up this brand we are careful to use seed that has been thoroughly cleaned, the light seed and chaff having been blown out. 1 lb. 40c; 3 lbs. \$1.15; 5 lbs. \$1.80; 10 lbs. \$3.50; bushel of 30 lbs. \$10.00.

**M. & S. SHADY NOOK GRASS**—It is quite difficult to obtain a satisfactory growth of grass under trees and in shady places. For sowing in such places we recommend the use of this special mixture. It will quickly produce an abundant and even growth of beautiful green grass. The grasses used in making this special mixture are only those that are well adapted for growing in shade. It has been successfully used on some large opera-

tions where a green sward was desired on land partially shaded by old trees. 1 lb. 40c; 3 lbs. \$1.15; 5 lbs. \$1.80; 10 lbs. \$3.50; bushel of 30 lbs. \$10.00.

**M. & S. PLEASURE GROUND MIXTURE**—For fair greens, etc. The turf required for pleasure grounds must be of a character to withstand rough usage. This special mixture is made from our own formula, and will produce a permanent turf that will stand the hardest wear. For tennis courts, cricket tables, golf links, polo grounds, or wherever a good sward is wanted, this seed will give perfect satisfaction. We believe that the golf links should be as fine as a velvety lawn, hence the need of a fine mixture. 1 lb. 40c; 3 lbs. \$1.15; 5 lbs. \$1.80; 10 lbs. \$3.50; bushel of 30 lbs. \$10.00.

**M. & S. VELVET LAWN GRASS SEED**—A Cloverless grass seed mixture containing only the choicest fine bladed varieties. Compares very favorable in endurance with our famous M. & S. Roland Park Lawn Grass. Where a very fine velvet lawn is desired we recommend this seed. 1 lb. 60c; 3 lbs. \$1.75; 5 lbs. \$2.50; 10 lbs. \$4.75; bushel of 30 lbs. \$13.50.

**M. & S. TERRACE MIXTURE**—Composed of deep rooted varieties adaptable for terracing. 1 lb. 40c; 3 lbs. \$1.15; 5 lbs. \$1.80; 10 lbs. \$3.50; bushel of 30 lbs. \$10.00.

**M. & S. GOLF LINK MIXTURE**—This mixture is composed exclusively of fine-bladed grasses which will withstand frequent close cutting and trampling. It does not contain any White Clover, the latter not being suitable for the closely cut golf lawn. It is very important that only grasses which fulfill all requirements for the golf course are used in this mixture. 1 lb. \$1.00; 3 lbs. \$2.75; 5 lbs. \$4.25; 10 lbs. or more, at 80c per lb.

**M. & S. SEASHORE LAWN GRASS**—Is all that its name implies. 1 lb. 50c; 3 lbs. \$1.25; 5 lbs. \$2.25; 10 lbs. \$4.25; bushel of 30 lbs. \$12.00.

**WOOD'S MEADOW GRASS (Poa Trivialis)**—For shady situations in parks and densely shaded lawns, this grass has no superior. It is related to Kentucky Blue Grass and produces a firm and attractive turf. 1 lb. 75c.

**SOUTH GERMAN BENT GRASS**—Especially adapted for putting greens and wherever a velvet-like lawn is wanted. 1 lb. \$1.00. Special price in quantities on quotation, on two above.

**WHITE CLOVER**— $\frac{1}{4}$  lb. 20c;  $\frac{1}{2}$  lb. 35c; 1 lb. 60c.



*A*NOTHER planting and sowing season will soon be at hand, and as customary our 1928 Garden Book is going into the homes of our many friends and customers. If you have been pleased with our goods and the way we have served you, we would very much appreciate your sending or telling us the names of a few of your friends who are or may become interested in gardening or truck farming, and would like to have a copy of this book. It may help them to plan and become more interested, or enable them to try some of our specialties. It is a well known fact, that gardening has become a recognized factor in promoting the nation's health and happiness.

#### GARDEN REWARDS—come in three distinct forms:

First: the satisfaction of time well spent in helping nature to do her utmost.

Second: the joy of seeing our efforts bear results in the form of luscious fruits and vegetables.

Third: "that something" which exhilarates and reacts on the mind and body and makes us feel better for having worked with nature.

Therefore, when the Spring-fever takes hold, get out and dig and plant; but, before that, do some systematic planning. Look over our Garden Book and send in your selections. Early ordering will assist us greatly. Quite a few items in seeds are extremely scarce this season, due to unfavorable weather conditions for growing and harvesting, not only in this country, but all over the world.

It is at all times our aim to handle only the best in any seeds, bulbs or plants we may send out, our contracts being

**IMPORTANT**—Merchandise to be credited must be returned within five days in good order free of expense to us. Parties having no account with us—who order goods without remittance—must furnish satisfactory reference. Baltimore reference preferred on account of the shorter delay pending investigation. Order Sheet is provided in his book.

#### PARCEL POST RATES

We deliver by PARCEL POST FREE to any Postoffice in the United States all cash orders for Flower and Vegetable Seeds in packets, ounces and  $\frac{1}{4}$  pounds, unless otherwise noted. No seed delivered free unless order is accompanied with the cash. For postage on Peas, Beans, Corn, Vegetable and Field Seeds in larger quantities and All Merchandise, consult table below. All merchandise other than seeds, bulbs and plants up to and including 4 oz. in weight can be sent at the rate of 1c an ounce regardless of distance. Over 4 ozs. at the Zone Rate.

made with the most careful growers in localities where the different varieties succeed the best and you will not regret placing orders with us.

Although we take all possible care to supply only such goods as will, under proper conditions, produce satisfactory results, we give no warranty, express or implied as to description, quality, or any other matter of any seeds, bulbs, or plants we send out, and will not be responsible for the crop. It must, however, be plain to everyone who gives the matter the slightest thought that it is to our best interest to send out only such stock as will not only grow, but prove true to name and description.

Our organization is constantly on the alert to live up to our motto: "Sterling quality, courteous treatment and punctuality." We are constantly trying to secure new, proven varieties in flowers and vegetables to help make gardening a success.

We have outgrown our old quarters at 32 Light Street, where we have done business for 17 years, and are now occupying a more spacious building at 34-36 Light Street, where we have fitted up our sales and showroom to a decided advantage. Note illustration above. The shipping and receiving is done in such a way, that it does not interfere with the comfort of our customers, as we are sorry to say has been the case heretofore, due to cramped quarters.

With thanks for your valued patronage, and every wish for our pleasant business relationship, we are,

Yours for Service,  
THE MEYER SEED COMPANY,

**NOTE.**—When estimating postage on goods not included in our free delivery, bear in mind that while the packing on one pound may only weigh the fraction of a pound, it must be considered as a full pound when adding postage. On larger quantities add postage in proportion.

Limit of weight for delivery within local, first, second and third zones is 70 pounds; to all other zones, 50 pounds.

When larger quantities are wanted we can pack in two or more parcels if necessary, provided money is remitted to cover postage.

	Each
1 and 2 zone—150 miles.....	7c 1c
3 zone—150 to 300 miles.....	8c 2c

For each additional zone add 1c.

For each additional pound add 2c.

Telephone Service Plaza 6170-6171



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## TURN GARDEN REFUSE INTO RICH MANURE

Do not destroy garden refuse. It represents more than half the yield of the soil. By the simple ADCO process it can be converted into manure and turned back to nourish that same soil.

Anybody can use ADCO, and every good gardener should use ADCO. Nothing takes the place of manure, and with ADCO you can make quantities of it, rich, odorless, and clean.

**ADCO**, in 25-lb. bags (Enough for 12 wheelbarrow loads of garden waste, making  $\frac{1}{2}$  ton of manure).....\$ 2.00

**ADCO**, in 100-lb. bags (4-25s) (Enough for a heap 6x6x6 ft., making about two tons of manure).....\$ 7.75

**ADCO**, in 150-lb. bags (Enough for a heap 10x10x6 ft., making about three tons of manure).....\$10.50

**FIELD ADCO** at special prices for ton lots to Farmers, Market Gardeners, etc.



Plant in succession.  
Keep your garden space  
busy all the time, and you  
will be eating fresh vegetables all summer at a profit.

# Planting Calendar

Make Your Garden Work  
Spring, Summer, and Fall.

## FLOWERS

### MARCH

Sow Outdoors	
Sweet Peas.	
Plant Indoors	Set Out
Ageratum	May 1
Antirrhinum (Snap-dragon)	May 15
Asters	May 10
Carnation, Marguerite	May 1
Celosia, Cockscomb	May 1
Cobea scandens	May 1
Heliotrope	May 10
Hollyhock	May 10
Lobelia	May 1
Pansy	May 1
Petunia	May 1
Salvia	May 1
Stocks (Gilliflower)	May 15
Verbena	May 1
Wallflower	May 1

### APRIL

#### Sow outdoors Nasturtiums.

All those listed for March may also be planted in April, and, in addition, the following:

#### Sow Indoors Set Out

Alyssum	May 1
Calendula	May 1
Coleus	May 15
Cosmos, Late	May 1
Dahlias	May 1
Delphinium Chinese	May 15
Gourds, Ornamental	May 1
Helianthus Sunflower	May 1
Marigold	May 1
Mignonette	May 1
Nicotiana	May 1
Phlox Drummondii	May 1
Poppy, Iceland	May 15
Ricinus (Caster-Oil Plant)	May 10
Salpiglossis	May 10
Scabiosa	May 1
Vinca rosea	May 10
Zinnia	May 1

### MAY

This is the month of outdoor sowing and planting. The following list of flowers comprises those which may be sown in the open, and which will mature into perfection before frosty weather sets in.

#### Sow Outdoors

(Do not require transplanting)

Sweet Alyssum

Calendula

Calliopsis

Candytuft

Centaurea (Bachelor's Button)

Chrysanthemum, Annual

Clarkia elegans

Cosmos, Early

MAY—Continued	
Delphinium Chinese	
Dianthus (Chinese Pinks)	
Eschscholtzia (California Poppy)	
Gaillardia (Blanket Flower)	
Godetia	
Ornamental Gourds	
Helianthus cucumerifolius (Miniature Sunflower)	
Hunnemannia fumariaefolia	
Larkspur, Annual	
Lupins, Annual	
Marigold	
Mignonette	
Morning Glory	
Nasturtiums	
Petunia	
Phlox Drummondii	
Poppy	
Portulaca	
Salpiglossis	
Scabiosa	
Verbena	
Zinnia	
and all other annuals (Should be transplanted)	
Asters	
Balsam	
Celosia (Cockscomb)	
Cosmos, Late	
Dahlias	
Marigold	
Mignonette	
Nicotiana	
Ricinus	

### JUNE

This is the month to sow perennials. The varieties listed below can easily be grown from seed. All of them may be sown from June till middle of September.

To Remain Where Sown	
Alyssum saxatile compactum	
Aconitum (Monk's Hood)	
Aquilegia (Columbine)	
Asters, Hardy	
Coreopsis	
Campanula (Bluebells)	
Candytuft, Semperflorens	
Hibiscus	
Lupins	
Poppies, Iceland	
Poppies, Oriental	
Sweet William	
Valerian (Garden Heliotrope)	
To Be Transplanted	
Canterbury Bells	
Delphinium (Larkspur)	
Digitalis (Foxglove)	
Gaillardia grandiflora	
Hollyhocks	
Pyrethrum	

## Grow Vegetables for Winter Use

After you have harvested your early crop of vegetables why not plant a second crop for winter use?

It is in winter that vegetables cost most.

Your garden can be made to save you a great deal of money if you plant succession crops during the summer and early fall.

Sow Beets and Carrots any time during June. Turnips are sweetest if planted the latter part of June or early in July. Summer Radishes can be sown all during June and July.

Sweet Corn sown the middle of June will give fine tender ears early in October. A row of Bush Beans planted during the first

## FLOWERS—Continued

### JULY

This is the most important month for sowing some flower seeds. The following biennials, if sown in July and transplant-

ed in August or September, will flower the following spring.

#### Variety

Bellis (English Daisies)	Lilies
Pansies	Tulips Jonquils
Myosotis (Forget-me-not)	Crocus

## Bulbs, Tuberous Roots and Potted Plants

### MAY

Plant Outdoors	
Begonias	Dahlias
Caladiums	Gladioli
Peonies	Tuberous
Cannas	

### SEPTEMBER, OCTOBER AND NOVEMBER

Hyacinths	Lilies
Tulips	Jonquils
Narcissus	Crocus
In fact, all Spring Flowering Bulbs.	

## VEGETABLES

### MARCH

The only vegetables to be planted out-of-doors in March. All early peas and onion sets. There are a number of vegetables, however, which may be started indoors or in hotbeds.

#### Plant Indoors Set Out

Artichoke, Globe	June 1
Cabbage, Early	April 1
Cauliflower, Early	May 1
Celery	June 1
Eggplant	May 15
Kohlrabi	April 15
Lettuce	April 15
Parsley	May 1
Pepper	May 15
Tomato	May 1

#### Outdoors

Peas, Early Smooth	
Onion Sets	

### APRIL

All the seeds mentioned in the March table can be started in April, and also the following:

#### Plant Indoors Set Out

Beets	May
Brussels Sprouts	June
Cabbage, Late	June
Cauliflower, Late	June

#### Plant Outdoors

Asparagus, Roots	Parsley
Beets	Parsnip
Carrots	Peas, Early
Cress	Wrinkled
Kohlrabi	Potatoes
Lettuce	Radish
Mustard	Rhubarb, Root
Onion Seed	Swiss Chard
Onion Sets	Squash

Set out Lettuce started indoors in March.

Turnip	
Stringless Green Pod Beans	
Stringless Wax Pod Beans	
Ruta Baga	
Winter Radishes	
Kale, Turnip	
Spinach	

### SEPTEMBER AND OCTOBER

#### Plant Outdoors

Corn Salad	Spinach
Kale, Multiplying Onion	

#### Plant Under Glass

Lettuce, Parsley	
Early Radishes	

week of July will bear an immense crop of juicy and snappy pods until frost.

Cucumbers planted the last two weeks in June will make the finest pickles you ever raised.

Also try a row of Chinese Cabbage. It does best if planted early in August. For a good supply of crisp and juicy Head Lettuce for the fall table, sow the seed about the second week in July. And don't forget to sow a long row of Spinach any time during August, to give plenty of greens until snow covers the ground.

## SPRAYING TABLE

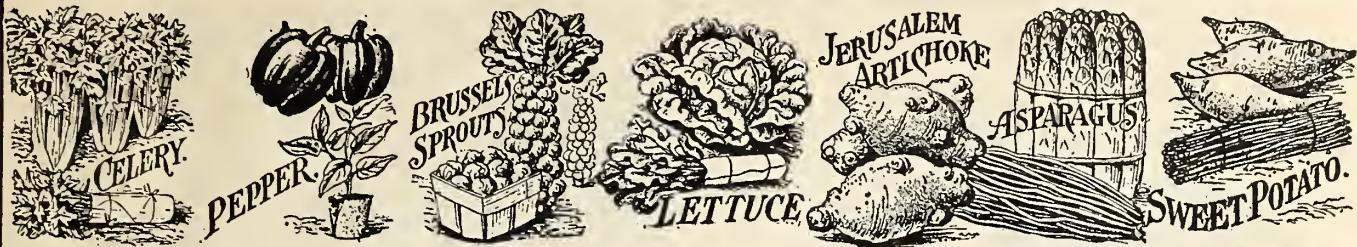
Use insecticides at the right time—and keep  
your plants and flowers free from insect pests

WHAT TO SPRAY AND WHAT TO SPRAY FOR	SPRAY WITH	TIME OF FIRST SPRAYING	TIME OF SECOND SPRAYING	TIME OF THIRD SPRAYING
<b>APPLES—</b> Bitter Rot..... Canker Worm.....	Bordeaux mixture, Pyrox..... Arsenate of lead, Pyrox.....	First appearance of rot..... On first appearance of worms...	One to two weeks later..... Two or three days later if worms remain.....	Two weeks later. Same as second.
San Jose Scale..... Scab..... Coding Moth.....	Scalecide or lime-sulphur..... Scalecide or lime-sulphur..... Arsenate of lead, Pyrox.....	Just as the leaf buds are swelling..... After the leaves have come out, but before the flower buds appear..... Within eight days from the time the petals drop.....	Just before the flower buds open..... Within eight days from the time petals drop..... One month later.	As soon as the petals have fallen.  One month later
<b>ASPARAGUS—</b> Beetle..... Rust.....	Arsenate of lead, Pyrox..... Bordeaux mixture or Pyrox ..	Early spring..... After cutting crop.....	Ten days later.....	Ten days later
<b>CABBAGE AND CAULIFLOWER.....</b>	Slug Shot, Bug Death, Pyrox..	On first appearance of worms...	Whenever worms are noticed.	
<b>CELERY—</b> <b>CHERRY—</b> Aphis..... San Jose Scale.....	Bordeaux mixture, Pyrox .....	On young seedlings..... At first appearance.....	Repeat on seedlings..... Repeat as necessary.	Before or after transplanting.
Leaf-spot..... <b>CUCUMBERS—</b> Anthracnose..... Downy Mildew.....	Scalecide or lime-sulphur..... Bordeaux mixture, Pyrox..... Bordeaux mixture, Pyrox .....	Spray same as for apples. Just before blossoms open..... When plants begin to run.....	When fruit is free from calyx.	
<b>CURRANT—</b> Leaf-spot..... Worm.....	Bordeaux mixture, Pyrox .....	As leaves are unfolding..... When they first appear.....	Two weeks later..... In three or four days.....	Two weeks later. Repeat three or four days later.
<b>GOOSEBERRY—</b> Leaf-spot..... Worm..... Mildew.....	Bordeaux mixture, Pyrox .....	Before leaves start.....	Two weeks later.....	Two weeks later.
<b>GRAPE—</b> Anthracnose..... Berry Moth.....	Bordeaux mixture, Pyrox .....	When buds are breaking.....	Repeat every ten days until fruit is gathered.	
Downy or Powdery Mildew.. Rot..... <b>MUSKMELON—</b> Anthracnose..... Downy Mildew..... Leaf-blight.....	Arsenate of lead, Pyrox .....	Just before the buds open..... Before blossoms are ready to open.....	Just before blossoming.....	After fruit has set.
<b>PEACH—</b> Leaf-Curl.....	Bordeaux mixture, Pyrox .....	Just before blossoming.....	After blossoms have fallen.....	Ten days later.
Brown Rot.....	Self-boiled lime-sulphur and arsenate of lead.....	Just before blossoming.....	After fruit has set.....	Ten days later.
Stab.....	Sulfocide, self-boiled lime-sulphur.....	When plants begin to vine.....	Two weeks later.....	Nine days later.
San Jose Scale.....	Scalecide or lime-sulphur.....	July 25 to August 1.....	Ten days later.....	Three weeks later
<b>PEAR—</b> Leaf-blight.....	Bordeaux mixture.....	When plants begin to vine.....	Three weeks later.....	
Psylla.....	Black Leaf 40, Insekto Spray or whale-oil soap .....	In March or April, or both, to make doubly sure.....	Two or three weeks later.	
<b>PLUM—</b> Curcilio..... Aphis..... Shot-hole Fungus.....	Arsenate of lead..... Whale-oil soap, Black Leaf 40..... Scalecide, lime-sulphur or bordeaux mixture.....	About time shucks are shedding from young fruit or on first appearance.....	After fruit has set.....	
Rot..... <b>POTATO—</b> Early blight..... Late blight..... Potato Beetle.....	Bordeaux mixture, Pyrox..... Bordeaux mixture, Pyrox..... Paris green, slug shot bug death, Pyrox, Calcium arsenate	Just as buds begin to swell..... Just as buds begin to swell.....	After fruit has set.....	About one month before fruit ripens. Omit arsenate of lead.
RASPBERRY— Anthracnose....	Bordeaux mixture, Pyrox.....	Spray same as for apples		Repeat later when fruit is about half grown.
Saw-fly.....	Paris green and arsenate of lead or hellebore.....	Cut out the branches on first appearance on twigs.		
<b>ROSE—</b> Leaf-spot.....	Bordeaux mixture, Pyrox.....	In winter use commercial lime-sulphur for eggs.	After blossoms fall.....	Repeat at intervals of three to seven days.
Leaf-spot..... Mildew.....	Pomo dust, All in one dust..... Powdered sulphur, Pomo dust, All in one dust	With starting of buds..... On Appearance of Aphis.	Just after blossoms drop.....	Five days later.
Slug, Aphis, etc.....	Insekto Spray, Thanatus, Black Leaf 40, Nicofume Liquid, All in one dust	When leaves are half grown.... As buds are swelling or on appearance.	Three weeks later..... Just after calyx drops.....	Three weeks later if necessary. Three or four weeks later.
<b>STRAWBERRY—</b> Leaf-spot.....	Sulphate of iron, bordeaux mixture, Pyrox.....	When plants are 6 inches high... As for early blight to July.....	Seven to ten days later..... July 15 to 20.....	Two weeks later. Two weeks later.
<b>SQUASH—</b> Aphis..... Lady Beetle.....	Insekto Spray or Black Leaf 40 Arsenate of lead, Pyrox.....	When pest appears.....	Repeat if necessary.	
<b>TOMATO—</b> Anthracnose..... Leaf-blight..... White Fly .....	Bordeaux mixture, Pyrox..... Whale-oil, soap and water..... Bordeaux mixture, Pyrox.....	Before leaves open..... Soon after growth begins..... Spray under side of leaves. As soon as pest appears.	When new canes are 6 to 8 inches high..... Make three or four sprayings during season.....	Ten days later.
		When pest appears..... When leaves are half grown....	Repeat in three or four days. Two weeks later.....	Two weeks later.
		On first appearance of funguses...	Two or three weeks later.....	Repeat if necessary.
		On appearance of slugs, etc....	Repeat if necessary.	
		Soon after growth begins.....	Make three or four sprayings during season.....	
		Spray under side of leaves. As soon as pest appears.		
		Soon after fruit begins to set Three weeks after transplanting Spray underside of leaves thoroughly	Three weeks later..... Three weeks later.....	The following spring spray just before blossoming and again 10 days later.
				Three weeks later.
				Three weeks later.

Gentlemen:

In using Pomo dust as a preventive for mildew and black spot, a disease that roses are most susceptible to, let me say I have found the above to be the most satisfactory of any article of similar kind on the market today. I have recommended it to the Maryland Rose Society in the fullest, and hear splendid results from its using. Bushes should be treated every ten days, with a light dusting of Pomo dust, from early Spring and throughout the Summer, using a dust gun to thoroughly distribute the Material.

ARTHUR E. WARNER, President, Maryland Rose Society.



## Vegetable Plants and Roots

Cash with Order—No Plants Sent C. O. D.

### SPECIAL NOTICE

All of our plants are produced from our M. & S. Sure Growing Seeds, and will give wonderful results. If wanted in larger quantities, write for special quotations.

#### ARTICHOKES (Ready in April)

Jerusalem—Used for the table and stock feeding. Qt. 25c; peck \$1.50; per bushel of 60 lbs. \$5.00.

#### ASPARAGUS ROOTS (Ready Oct. 15 to May 15)

The two-year-old roots usually produce two years after planting.

	Doz.	100	1000
Giant Argenteuil (Light Green Stalks)	\$0.30	\$1.25	\$ 9.00
Columbian Mammoth White (White stalks)	0.30	1.25	9.00
Conover's (Green Stalks)	0.30	1.25	9.00
Palmetto (Green Stalks)	0.30	1.25	9.00
Washington (Dark Green Stalks)	0.50	2.00	15.00

If wanted by mail add 10c to doz.; 15c to 100; 35c to 1000.

#### BEET PLANTS (Ready April 1)

Popular Varieties—15c doz.; 60c per 100; by mail, add 5c to doz.; 15c to 100.

#### BORECOLE PLANTS (Ready July 1)

20c doz.; 75c per 100; by mail, add 5c to doz.; 15c to 100.

#### BRUSSELS SPROUTS (Ready in July)

Matchless Improved—12 for 25c; 75c per 100; per 1,000, \$6.00. If wanted by mail, add 10c per 100 for postage; 5c per doz.

#### FROST-PROOF CABBAGE PLANTS

(Ready January to May)

Our FROST-PROOF CABBAGE PLANTS mean increased profits for the Market Gardener, and earlier cabbage for the Home Gardens, as they produce heads at least two or three weeks earlier than plants grown in hot beds or cold frames. They are tough and hardy and will stand any reasonable cold, even as low as 20 degrees above zero without damage to them.

These plants do not begin any new growth of their tops until the spring weather arrives, however, the roots of the plants have become so firmly established that the warm spring sunshine soon hastens the growth of them.

We advise all cabbage growers to set these plants at least a month to six weeks earlier than you would set home-grown plants to get the desired results.

Send in your order about a week or ten days before plants are wanted, as it takes a few days to get plants to you.

Varieties—Early Jersey Wakefield, Charleston Large Wakefield, Copenhagen Market, Early Flat Dutch and Succession.

Prices by parcel post prepaid: 50c per 100; 500 for \$1.60; 1,000 or more at \$3.00 per 1,000 plants.

By express, customer paying express charges: 1,000 to 4,000 at \$2.00 per 1,000; 5,000 or more plants at \$1.50 per 1,000; cash with order.

#### CABBAGE PLANTS (Season beginning April 1)

Early Sorts—From hot beds. 15c per doz.; 50c per 100; per 1000, \$4.00.

Late Sorts—Popular varieties. 15c doz.; per 100, 50c; \$4.00 per 1000. If cabbage plants are wanted by mail, add 10c per 100 for postage; 5c doz. Ready May 1st.

#### CAULIFLOWER PLANTS (Ready April 1)

Snowball, variety only—From hot beds. 25c per doz.; \$1.50 per 100. By mail, add 5c per doz., or 10c per 100 for postage charges.

#### CELERY PLANTS (Ready in July)

M. & S. Monarch, Golden Heart, White Plume, Giant Pascal, Winter Queen and Golden Self-Blanching. 25c dozen; \$1.00 per 100; 7.50 per 1000. By mail, allow 10c per 100 for postage; 5c per dozen.

#### EGG PLANTS (Ready after May 1)

Sold in pot-grown stock only. M. & S. Ebony King and Black Beauty—7c each; 75c doz.; \$5.50 per 100. Best sent by express. Mail, add 2c to each plant.

#### HORSE RADISH ROOTS (Ready in March)

Maliner Kren (Bohemian)—Large, strong cuttings, 35c per doz.; per 100, \$1.00; \$7.00 per 1,000. If Horse Radish are wanted by mail, add 10c per 100 for postage; 5c per doz.

#### KOHL RABI PLANTS (Ready April 1)

Early White Vienna—20c doz.; 75c per 100; by mail, add 10c per 100; 5c doz.

#### LETUCE PLANTS (Ready April 1)

Leading varieties—10c doz.; 50c per 100; \$4.00 per 1,000. If wanted by mail, add 10c per 100 for postage; 5c doz.

#### ONION PLANTS (January to May)

These are new, and especially suitable for home gardens. Seed is sown early in Texas, and the plants are lifted, to be replanted in northern garden, to produce sweet mature onions of Bermuda quality. Can be planted when ground is open and on through May. It has been proven that you can grow Bermuda Onions from Plants in every state in the United States. Frost and light freezes are a help in making a firm onion. The tops may freeze but it will not injure the bulb.

How to Plant—Sharpen a wooden stick, making a hole about two inches deep, place the plant in as you withdraw the stick and press dirt firmly with stroke from stick.

Cultivate very shallow as the onion roots grow near the surface and should not be disturbed. About all the cultivation needed is scratching to kill weeds.

#### VARIETIES YELLOW BERMUDA AND PRIZETAKER

Prices by parcel post prepaid: 50c per 100; 500 for \$1.60; 1,000 or more at \$3.00 per 1,000 plants.

By express charges collect: 1,000 to 4,000 at \$2.00 per 1,000; 5,000 or more plants at \$1.50 per 1,000.

#### PEPPER PLANTS (Ready in May)

Ruby King and Chinese Giant (sweet), Bull Nose, and Long Red Cayenne (hot).—Hot Bed Grown. 25c per doz.; per 100, \$1.50. By mail, add 10c 100; 5c doz. Potted plants, sweet varieties only, 6c each; 60 doz.; \$4.50 100; if to go by parcel post, add 1c to each plant.

#### RHUBARB ROOTS (Ready October to May 15)

Victoria—First Size Roots. 10c each; \$1.00 per doz.; per 100, \$7.50. Allow 5c each or 20c dozen for postage, if wanted by mail.

#### SWEET POTATO PLANTS (Ready in May)

Yellow Big Stem and Up Rivers—50c per 100; 1,000, \$4.00. If wanted by mail, allow 80 per 100 for postage, 25c per 1,000.

#### TOMATO PLANTS (Ready after April 15)

Pot-Grown Plants in the following varieties only: Earliana, M. & S. Incomparable, Chalk's Jewel, 5c each; doz. 50c; \$4.50 per 100. By mail, add 1c per plant.

Hot-Bed Plants all kinds and the best as above. 20c per doz.; per 100, 60c. By mail, allow 5c per doz.; 15c per 100.

We pay postage on pkts., ozs.,  $\frac{1}{4}$  lbs., 1 and 2 lbs. of Vegetable Seeds.

## Asparagus—Seeds and Roots

(German—Spargel. French—Asperge)

(ROOTS READY AFTER MARCH 1st)

One ounce to forty feet of drill; 5 lbs. per acre.  
7,300 Asparagus Plants are needed to plant an acre.

Washington Asparagus.

**Giant Argenteuil**—A new and entirely distinct variety that produces shoots that are very thick, green, with a purple tinge, heads slightly pointed, close. Pkg. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1lb. \$1.00.

**Columbian Mammoth White**—Pkg. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1lb. \$1.00.

**Washington**—This asparagus, which has been selected by the United States Department of Agriculture, Washington, D. C., has proven to be nearly rust-free. The shoots are thick and heavy. They are long and straight, with closely folded tips. The color is rich dark green, tinted darker at the tips. It is a heavy yielder of exceptionally fine flavor. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 65c; 1lb. \$2.50.

**Conover Colossal**—Of large size, tender and of excellent quality. Green shoots. Pkg. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1lb. \$1.00.

**Barr's Mammoth**—Producing heavy green spears. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1lb. \$1.00.

**Palmetto**—It is of very large size, even and regular in growth and appearance. It is a very early sort, and immensely productive and of the best quality. Green shoots. Pkg. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1lb. 90c.

For Plants, see page 5.

## Italian Sprouting Broccoli

**CULTURE**—Sow about middle of August in rows 32 in. apart well fertilized, using 2 lbs. of seed to the acre, covering the seed  $\frac{1}{2}$  in., cultivate twice before freezing weather. In cold weather tops will die down. As soon as it begins to get a little warm in February, put on a top dressing of Nitrate of Soda or some quick acting fertilizer. Cultivate after top dressing is put on. About the middle of March it will commence to stalk up with several shoots per stalk, with green blossoms. When stalks are about 8 inches high cutting may commence. Tie in bunches like asparagus, with one to one and a half lbs. in a bunch. Ship in crates, 2 doz. bunches per crate. Cutting will commence around the middle of March and continue until around the 10th of April. If weather is warm may cut 2 to 3 times each week. After cutting is over the same land may be used for any desired crop. Leaves may be cut and shipped to northern markets, commanding a fair price.

Served like Asparagus or Greens, it makes a delicious and wholesome dish. Price: Lb. \$7.50;  $\frac{1}{4}$  lb. \$2.00; oz. 60c;  $\frac{1}{2}$  oz. 35c; pkt. 10c.

## Accessories for Asparagus Culture



**Asparagus Buncher**—Even where one has a limited amount of asparagus to market it pays to use a buncher. It is quickly tied and looks uniform. With Knife Guard, \$4.50. Parcel post weight, 8 lbs.

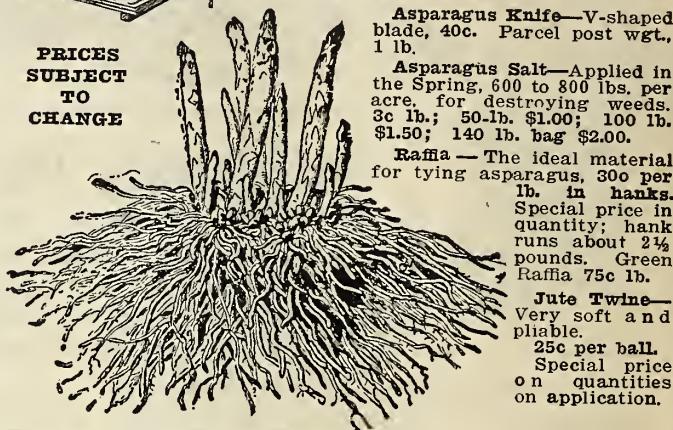
**Asparagus Knife**—V-shaped blade, 40c. Parcel post wgt. 1 lb.

**Asparagus Salt**—Applied in the Spring, 600 to 800 lbs. per acre, for destroying weeds. 3c lb.; 50-lb. bag \$1.00; 100 lb. \$1.50; 140 lb. bag \$2.00.

**Raffia**—The ideal material for tying asparagus, 300 per lb. in hanks. Special price in quantity; hank runs about 2 $\frac{1}{2}$  pounds. Green Raffia 75c lb.

**Jute Twine**—Very soft and pliable. 25c per ball. Special price on quantities on application.

PRICES  
SUBJECT  
TO  
CHANGE

Two-Year-Old Asparagus Plants,  
see page 5.

## Artichokes

**Large Green Globe**—This is a very delicious vegetable. Some prefer it cooked like asparagus—that is, take the flower head before it begins to open and cook much the same as asparagus. Pkt. 10c; oz. 50c;  $\frac{1}{4}$  lb. \$1.40; 1 lb. \$5.00.

**Artichoke Roots (Jerusalem)**—The tubers roasted or boiled, served with butter, salt and pepper, make a dish some think superior to potatoes. They are most excellent feed for cows, and will cause an increase in quantity and quality of milk.

Price, see page 5.

## Broccoli

(German—Spargelkohl)  
(French—Buccoli)

A plant much resembling the Cauliflower. Broccoli requires a longer season to develop than Cauliflower. It has more numerous and stiffer leaves; heads are smaller. Treat same as Cabbage.

One ounce of seed to 200 feet of row.

**Early Large White**—Heads medium size, close and compact. One of the most certain to head. Pkt. 10c; oz. \$1.00.

**Early Purple Cape**—Rather hardier sort, with greenish-purple heads, good flavor. Pkt. 10c; oz. \$1.00.

## Brussels Sprouts

(German—Rosenkohl)  
(French—Choux de Bruxelle)

Improved Dwarf Brussels Sprouts.

A variety of the Cabbage family, possessing the peculiarity of bearing upon its stem or stalk from fifty to one hundred buds resembling miniature Cabbage heads. The leaves composing these heads resemble Savoy Cabbage in their crumpled texture and also in their color. The heads or buds, one to two inches in diameter, form one of the most delicious garden vegetables, only equalled by the Cauliflower. Treat same as Cabbage.

**Improved Dwarf**—Produces compact sprouts of finest quality; a good keeper. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; 1lb. \$2.00.

For Plants, see page 5.

Pkts., ozs.,  $\frac{1}{4}$  lbs. and lbs. of Seeds are send postpaid.

Jerusalem  
Artichoke Root.



M. & S. Sure Crop Stringless Wax.

## BEANS—Bush Beans (Green Pod)

If beans are to be sent by parcel post, add 5c to  $\frac{1}{2}$  pt.; 8c to pt.; 9c to qt.; 15c to  $\frac{1}{2}$  pk.; 22c to pk.; 75c to bus.; pkt. sent postpaid.

**CULTURE**—The seed should not be planted before the ground becomes light and warm, in favorable seasons, usually about the middle of April to first of May. The soil should be rich and mellow, and the seeds scattered about three inches apart in drills two feet apart, and covered about two inches deep. Successive sowings made at intervals of about two weeks until August 15th, will give a plentiful supply of Beans all season. One quart of seed will sow 100 feet of drill; two bushels will sow an acre. We furnish 10c packages of all Beans.

**Burpee's Stringless Green Pod**—An ideal variety having round slightly curved, fleshy and exceedingly tender pods. Matures a few days earlier than the Giant sort. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; 1 pt. 30c; 1 qt. 50c;  $\frac{1}{2}$  pk. \$1.50; peck \$2.75; bus. \$10.00.

**M. & S. Giant Stringless Green Pod Beans**—Of finest quality, large handsome pods, some of which measure fully 6 inches in length. Very productive, very fleshy and entirely stringless. Specially adapted to the home garden. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; 1 pt. 30c; 1 qt. 50c;  $\frac{1}{2}$  pk. \$1.75; peck \$3.25; bus. \$12.00.

**Bountiful**—Easily the earliest and most productive flat, green-podded, stringless bush bean in cultivation today. Under favorable conditions of soil and season this variety has been known to bear one bushel of pods per 15-foot row, in the course of the season. The pods average 6 inches long by  $\frac{3}{4}$  inches wide, are thick through, of pleasing light green color, very brittle and absolutely stringless at all stages of development. Bountiful tastes as good as it looks. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; 1 pt. 30c; 1 qt. 50c;  $\frac{1}{2}$  pk. \$1.75; peck \$3.25; bus. \$12.00.

**Early Red Valentine**—One of the most popular early snap beans with round, fleshy pods about five inches in length; very brittle, tender and of fine quality. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; 1 pt. 30c; 1 qt. 50c;  $\frac{1}{2}$  pk. \$1.50; peck \$2.75; bus. \$10.00.

**Black Valentine, or May Queen**—Has very long handsome round pods, and being immensely productive places this variety as one of the most profitable for the market gardener. It is very early. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; 1 pt. 30c; 1 qt. 50c;  $\frac{1}{2}$  pk. \$1.50; peck \$2.75; bus. \$10.00.

**Full Measure**—A recent introduction. Heavy light green foliage. Very prolific. Pods  $5\frac{1}{2}$  to 6 inches long, stringless, round slightly curved, very good quality. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; 1 pt. 30c; 1 qt. 50c;  $\frac{1}{2}$  pk. \$1.75; peck \$3.25; bus. \$12.00.

**Dwarf Horticultural, or Cherry**—This is a broad, long flat meaty bean, very productive, of delicious flavor; absolutely stringless. It also makes a good dried bean for winter.  $\frac{1}{2}$  pt. 15c; pt. 30c; qt. 50c;  $\frac{1}{2}$  peck \$1.50; peck \$2.75; bus. \$12.00.

**White Navy, or Boston Pea Beans**—Yields large quantities of white shell beans, which are used for baking. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; pt. 25c; qt. 40c;  $\frac{1}{2}$  peck \$1.25; peck \$2.00; bus. \$7.00.

**White Marrowfat**—Planted almost exclusively for winter use, making large white, kidney shaped beans. Pkt. 10c;  $\frac{1}{2}$  pt. 20c; pt. 35c; qt. 60c;  $\frac{1}{2}$  peck \$1.75; peck \$3.00.

**Masterpiece**—This is a large, flat-podded variety, especially adapted for growing under glass, though it may be grown successfully outdoors. Pkt. 10c;  $\frac{1}{2}$  pt. 25c; pt. 40c; 1 qt. 75c.

## Wax Pod Varieties

**M. & S. Sure Crop Stringless Wax**—This is a grand bean of recent introduction. Absolutely stringless and a great rust resister. Will produce an abundance of long yellow flat pods. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; pt. 30c; qt. 50c;  $\frac{1}{2}$  peck \$1.75; peck \$3.25; bus. \$12.00.

**Currie's Rust-Proof Black Wax**—Valuable for general use, being early, hardy, and a heavy yielder. Extra long flat pods of fine color and not apt to rust. Price same as above.

**Davis Kidney Wax**—Beans handsome flat yellow pods. White seed. Price same as above.

**Improved Golden Wax**—Small plants of erect growth, bearing flat thick pods about 5 inches in length, and of excellent quality. An early and reliable variety, recommended for home use. Price same as above.

**Round Pod Kidney Wax**—As its name implies, this is a round podded bean, which is very brittle and juicy. Price same as other wax sorts.

## Pole String Beans (GREEN AND WAX POD) CULTURE—Same as Pole Lima.

**M. & S. Golden Cluster Wax**—Deep yellow flat pods, often 8 inches long. Heavy yielder, bearing in large clusters. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; pt. 30c; qt. 50c;  $\frac{1}{2}$  peck \$1.50; 1 peck \$2.75.

**Horticultural or Pole Cherry**—Pods green, dashed with red when beans are matured. Very showy. Price same as above.

**Yard Long, or Snake Beans**—This is an ornamental as well as useful pole bean. Produces an abundance of dark green foliage and stringless green pods, often measuring from two to three feet long, which when cooked make a delicious dish. Seeds very small. Pkt. 10c; oz. 25c.

POLE BEANS CONTINUED ON NEXT PAGE



Burpee's Stringless Green Pod.

E. Rutowski & Brother, of Stemmers Run, tell us that our Full Measure Beans are the best stringless beans that they ever harvested. Running free from disease, absolutely stringless, and even in size.



Kentucky Wonder, or  
Old Homestead.

### English, or Broad Windsor Beans

**CULTURE**—Same as Bush Limas, only plant thinner. A bean similar to Lima Beans, but a different flavor and larger. Should be planted early, March or April, as they are very hardy. Pkt. 10c;  $\frac{1}{2}$  pt. 20c; 1 pt. 35c; 1 qt. 50c; 1 peck \$3.00.

We furnish 10c packages of all Beans.

**Wizard Brand Sheep Manure**—Apply 1,000 lbs. per acre. For garden, lawn or greenhouse use. This is where you get a whole cart load of manure in a 100-lb. bag at a much lower figure. 2 lbs. 15c; 5 lbs. 30c; 10 lbs. 50c; 25 lbs. \$1.00; 50 lbs. \$2.00; 100 lbs. \$3.00; 500 lbs. \$13.50; 1,000 lbs. \$25.00; per ton, \$47.50.

**Wizard Brand Cow or Cattle Manure (Shredded)**—Convenient to handle, making it possible for everyone to get this usually scarce article at all times. This is where you get a wagon load of manure 5 lbs. 30c; 10 lbs. 50c; 25 lbs. \$1.00; 50 lbs. \$2.00; 100 lbs. \$3.50; 500 lbs. \$16.25; 1,000 lbs. \$30.00; per ton, \$55.00.

Mr. D. J. Fleming, 4102 Belle Avenue, says our grass is wonderful, he also tells us that he sent some of the grass to his friends in Virginia, and they claim it is the finest ever seen.

Mr. Lowell, of Pikesville, tells us that our grass seed is the best he has ever planted, he claims that he cut his lawn eleven days after sowing.

**Kentucky Wonder, or Old Homestead**—The most popular of the pole varieties, and it should be in every garden where beans are planted. It grows luxuriantly and bears for a long period. Pods are very long, very fleshy and deeply creased or saddle-backed, green in color and stringless. Seed light brown. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; 1 pt. 30c; qt. 50c;  $\frac{1}{2}$  peck \$1.50; peck \$2.75.

**Lazy Wife, or White Cherry**—Pods 6 to 8 ins. long, entirely stringless, of a rich, buttery flavor when cooked as a snap bean; also a good, white shell-bean for winter. One of the very finest flavored. Price same as above.

**M. & S. Kentucky Wonder Wax**—Same as the above Kentucky Wonder with exception of beautiful yellow pods. Price same as above.

**Bush Lima Beans**  
1 qt. to 100 feet of drill.  
**CULTURE**—Plant in rows two feet apart, and about one foot apart in the rows.

**M. & S. Enormous Bush Lima Beans**—As the name implies, these are truly enormous, bearing in abundance, large pods which are filled with delicious large beans. Pkt. 10c;  $\frac{1}{2}$  pt. 20c; pt. 30c; qt. 50c;  $\frac{1}{2}$  peck \$1.75; peck \$3.25; bus. \$12.00.

**Burpee's Bush Lima**—Pods abundantly and well filled with handsome flat beans. Price same as above.

**Burpee's Improved Bush Lima**. Bears an abundance of thick kidney-shaped beans. Price same as above.

**Henderson's Dwarf Lima**—Beans are small but their flavor is excellent. Price same as above.

**Fordhook Bush Lima**—Beans large, round, thick, green and of delicious flavor, bearing in clusters of from four to eight, averaging four large beans to the pod. Pkt. 10c;  $\frac{1}{2}$  pt. 25c; pt. 40c; qt. 75c;  $\frac{1}{2}$  pk. \$2.75; pk. \$5.00; bus. \$18.00.

### Pole Lima Beans

**CULTURE**—These require pole 8 to 10 feet long. The beans should be planted in May if the season is suitable. Set poles four feet apart each way, and plant 4 to 6 beans, about 1 inch deep, around each pole. Thin out to three plants to a pole, if the soil is rich; pinch off the ends of plants when they overrun the top of the poles to effect a more perfect growth below. Lima Beans for early use may be grown in frames and transplanted. 1 quart to 100 poles.

**Early Leviathan**—The earliest large pole lima; very productive. Pkt. 10c;  $\frac{1}{2}$  pt. 20c; pt. 30c; qt. 50c;  $\frac{1}{2}$  peck \$1.50; peck \$2.75; bus. \$10.00.

**King of the Garden**—Vigorous grower, bearing large pods. 5 to 8 inches long. Beans large and of rich flavor. Price same as above.

**Sieva or Small White Lima**—(Butter Bean.) Early and productive, a great drought resister, smaller than regular limas, but juicy and of fine flavor. Price same as above.

**Carpenteria Early Lima**—Very fine, immense beans, which retain their green color a long while. Price same as above.

**Dreer's Improved, or Potato Lima**—Beans round and thick, of delicious flavor, easy to shell, immense crop. Pkt. 10c;  $\frac{1}{2}$  pt. 20c; pt. 30c; qt. 50c;  $\frac{1}{2}$  peck \$1.75; peck \$3.25; bus. \$12.00.

### TABLE BEETS

(German—Rote Rueben.  
French—Bette)

One ounce of seed sows sixty feet of drill; five pounds will sow an acre in drills.

**CULTURE**—The soil best suited to the culture of the beet is that which is rather light, provided it is thoroughly mixed with manure. If wanted very early sow in hotbeds and transplant; but for main crop sow in the Spring as soon as the ground becomes fit to work, in drills 18 inches apart and two inches deep. For winter use sow as late as July. When the plants have attained three or four inches in height, thin out so that they stand five to six inches apart. Keep free from weeds. Before freezing weather sets in the roots may be stored in cellars or pits, same as Potatoes; dry earth thrown over them before the straw and earth covering is put on insures their keeping over winter. Be careful not to bruise them in handling.

**M. & S. Strain Detroit Dark Red Beet**—Like the Detroit Dark Red, but runs more uniform in shape and color, positively the best beet for the truck farmer, as they always bring top-notch prices on the wholesale market, or at the packers. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.25; larger quantities at \$1.00 per lb.



M. & S. Strain Detroit Dark Red Beet.

Mrs. A. Gilpin, Jr., at Revell, Anne Arundel County, expressed her satisfaction with the seeds and bulbs purchased from us.

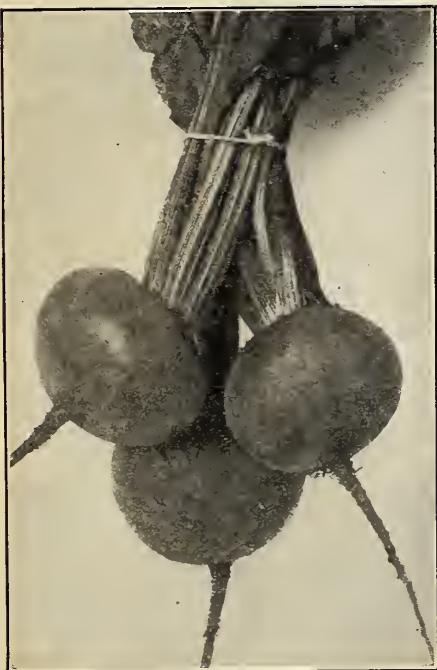


M. & S. Early Marvelous Beet.

### "M. & S." EARLY MARVELOUS BEET

The Ideal Beet for the market or home garden; in shape it is nearly a perfect globe, about 10 inches around with smooth skin free from rootlets; the flesh is a rich blood red nicely ringed, never stringy, and always tender and sweet; excellent for canning. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.25.

**Extra Early Flat Egyptian**—Maturing in an incredibly short time. Bulbs half globular, or flattened at the poles; roots very slim, skin smooth, leaves red and green, flesh quite dark. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00.



Crosby's Improved Egyptian Beet.

F. W. Koether, Alvarado Avenue, Parkville, Md., tells us that he received first prize in "Evening Sun" Contest on a vegetable garden grown from M. & S. Seeds.



Extra Early Eclipse Beet.

**Detroit Dark Red Beet**—A blood red, early, turnip-shaped variety. Has small upright top; fine round shape. Skin and flesh dark blood red. Very tender and sweet. Remarkably uniform in growth and a particularly desirable sort for truckers and market gardeners. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00.

**Long Smooth Dark Blood**—This variety has long, slender roots. The beets are seldom more than two inches through. Matures rather late, but is an excellent keeper. The flesh is dark red and quality sweet and tender. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00.

#### BEEF PLANTS, see page 5.

**Crimson Globe**—A second early variety, does not grow large and coarse, the matured beets being medium in size and good shape. The flesh and skin are both very dark and quality fine, being sweet and tender. The tops are small and dark in color. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. \$1.

#### SWISS CHARD, see page 23.

### Cow Beets

**MANGEL-WURZEL**  
(German—Runkelrueben)  
(French—Betterave)

Used for feeding cattle.  
Sow five pounds per acre.

**CULTURE**—Sow in April and May in thoroughly plowed, well-manured soil, in drills 2 inches deep and about 18 inches apart. Thin out to 12 ins. and keep the weeds down by frequent hoeing and cultivating. Low ground is best adapted for Mangel-Wurzel.

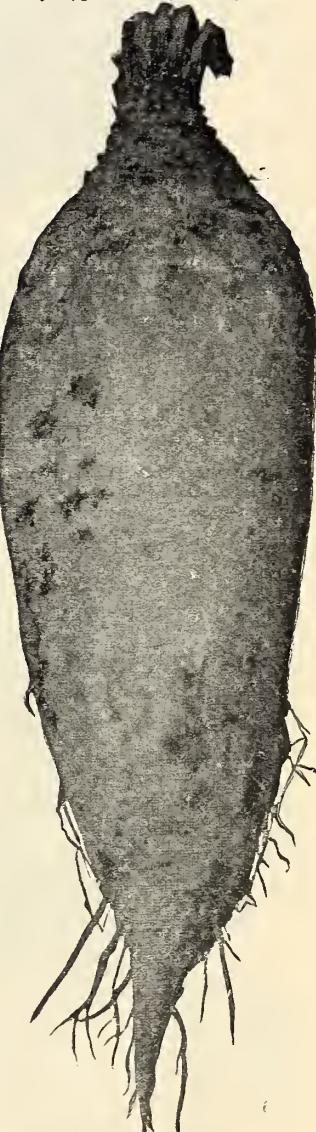
**Golden Tankard**—The best long yellow mangel in cultivation. Relished by milch cows and sheep. Maturing earlier than other large sorts. Oz. 10c;  $\frac{1}{4}$  lb. 15c; lb. 50c; 5 lbs. \$2.00.

**Improved White Sugar Beet**—An improvement on the other varieties of sugar beets, harder, and containing a greater percentage of sugar. Oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c; 5 lbs. \$2.50.

**Jumbo Mangel**—Immense, long, red, very fine quality. Oz. 10c;  $\frac{1}{4}$  lb. 15c; lb. 50c; 5 lbs. \$2.

**Gate Post Mangel**—Large, yellow, excellent sort. Oz. 10c;  $\frac{1}{4}$  lb. 15c; lb. 50c; 5 lbs. \$2.00.

**Mammoth Long Red**—This is an enormously productive variety, yielding from 50 to 70 tons to the acre, a single root often weighing 20 to 40 lbs. The best long red mangel and very valuable for stock feeding. Oz. 10c;  $\frac{1}{4}$  lb. 15c; lb. 50c; 5 lbs. \$2.00.



Gate Post Mangel Beet.

We pay postage on pkts., ozs.,  $\frac{1}{4}$  lbs. and 1 lbs.**M. & S. CHOICE CABBAGE SEED**

(GERMAN—KOPFKOHL. FRENCH—CHOU)

One ounce will produce about 2,500 plants; one-quarter pound for transplanting an acre.

**Culture**—Sow seeds in January or February in hotbeds, and transplant latter part of April or early in May to open ground, or an early sowing in open ground can be made as soon as weather will permit. Set the plants in rows two feet apart, and 12 to 18 inches apart in the row. For second early sow in April and transplant in May, or sow in May and transplant in July, setting plants in rows three feet apart and two feet in rows. Never plant in the same ground two years in succession.

**Early Varieties**

Golden  
Acre Cabbage,  
Earliest  
Flat.

**Golden Acre**—This is an extra early strain of Copenhagen Market maturing about ten days earlier. It will mature heads in eighty days from time of sowing, measuring nine inches in diameter, with a uniform weight of five pounds. Height of stalk is 2 ins. and entire plant consists of thirteen leaves which allows close planting. Pkt. 10c; oz. 60c;  $\frac{1}{4}$  lb. \$1.75; 1 lb. \$6.00.

**M. & S. COPENHAGEN MARKET**—A valuable new early cabbage from Denmark, producing a large globe-shaped solid head, which comes into market along with Charleston Wakefield. Our seed comes direct from the originator, makes few loose leaves, it is a vigorous grower and an excellent keeper. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. 90c; 1 lb. \$3.00.

**New Early**—The largest of the early cabbages. Head roundish flat, remarkably solid. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Early Flat Dutch**—A dwarf-growing type, principally used for early summer. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Early Jersey Wakefield**—The finest oblong-shaped cabbage in existence. The head is solid, there being very few outside leaves. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.



Extra  
Early Jersey  
Wakefield.

Mrs. John Olzewski informs us that our Extra Early Jersey Wakefield Cabbage is absolutely true to name, and she claims that it will cut earlier than any cabbage she has ever grown.

J. W. Ritter, of Chase, Md., tells us that our Golden Acre Cabbage runs 100 per cent pure. He claims that his field was a lovely sight to behold.

We do appreciate hearing from pleased customers.

**Extra Early Jersey Wakefield**—Our strain of this excellent extra early, pointed head sort is without a doubt the earliest cabbage of the day. Heads are smaller than Early Jersey Wakefield, but are solid and extremely uniform in both green color and size. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00; 1 lb. \$3.00.

**Large Charleston Wakefield**—Similar to Early Jersey, but the heads are more blunt, equally as solid, while almost twice the size, but matures one week later. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c;  $\frac{1}{4}$  lb. \$2.50.

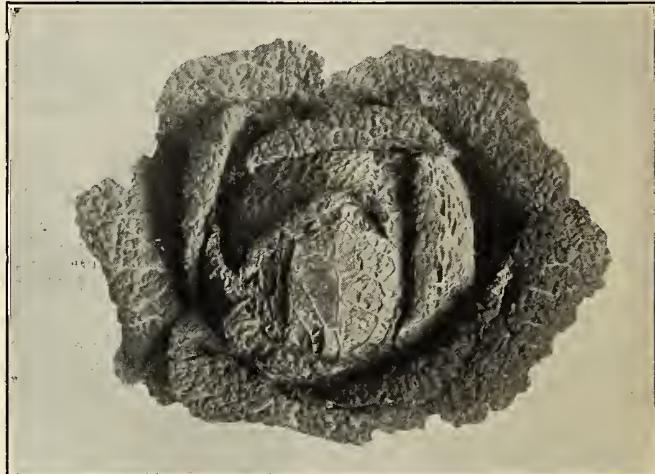
**Early York**—Resembles the Early Wakefield. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Early Winnigstadt**—Resembles Charleston Wakefield. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Second Early Varieties**

**Early Drumhead**—A large solid roundish flat-headed sort with few outer leaves. One of the best sorts to follow the Large Charleston Wakefield. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Succession**—A very popular sort with the market gardeners. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Late, or Winter Varieties**

M. & S. PERFECTION DRUMHEAD SAVOY CABBAGE  
(German—Wirsing Kohl. French—Choufrise.)

**Perfection Drumhead Savoy**—A beautifully crimped-leaved sort, color a deep glossy green. The head is almost round. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Red Dutch Drumhead**—A red variety, used extensively for pickling. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**All Seasons (Vandergaw)**—A very large head, round and solid. It is valuable for Summer or Winter use. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Danish Ballhead**—An elegant medium late variety. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Late Flat Dutch**—Improved Strain. This has been selected especially for our trade, and seed was taken from the finest type of heads which were selected for solidity and uniformity. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Chinese Celery Cabbage**

**Pe Tsai**—Improved Chinese Cabbage. The market appearance of this cabbage in quantity the past few years has created a widespread demand for the seed. It is very easily grown and does well in nearly all parts of the country. It should be grown like a late cabbage, planting in July (turnip planting time), as early plantings run quickly to seed. The seed is sown in drills 16 to 20 inches apart and the seedlings thinned two or three times. The full-grown plant somewhat resembles a Cos Lettuce in appearance. It has a mild flavor and may be eaten raw or as a salad, or cooked. Boiled, minced and seasoned with butter, it is especially delectable. Pkt. 10c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; 1 lb. \$3.50.

**Wong Bok**—Similar to the above; considered more choice by a great many. Pkt. 10c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; 1 lb. \$3.50.





M. & S. Southern Pride  
Carrot.

averaging five inches in length, with thick, heavy shoulders, rather large tops and deep orange color, almost coreless and of fine flavor. Positively the best carrot for home garden or market. Advisable for truckers. Pkt. 10c; oz. 15c; 1/4 lb. 40c; lb. \$1.25.

**Parisian Forcing**—Extremely early, of small size, but very sweet, tender and beautiful orange-red color. Pkt. 10c; oz. 15c; 1/4 lb. 30c; lb. \$1.00.

**Chantenay**—Top medium sized, neck small, roots tapering slightly but uniformly stump-rooted and smooth; color deep orange-red; flesh very crisp and tender. Price same as above.

**Pride of Market Carrot**—Similar to the above. Same price.

**Danvers, or Half-Long Orange**—Owing to its enormous yield, this variety is the best and most profitable for main crop, also desirable for feeding cattle. It is somewhat longer than Chantenay. Pkt. 10c; oz. 15c; 1/4 lb. 30c; lb. \$1.00.

**M. & S. Strain Danvers Carrot**—Like the above, but runs more uniform in shape and darker in color. Advisable for truckers. Pkt. 10c; oz. 15c; 1/4 lb. 40c; lb. \$1.25.

**Oxheart or Guerande**—A short thick carrot not exceeding four inches in length and about the same in width which does quite well on hard, heavy soils where the longer varieties are useless. Pkt. 10c; oz. 15c; 1/4 lb. 30c; lb. \$1.00.

**Georgia Collards**—Culture like Cabbage. The lower leaves are pulled off and used same as Cabbage Sprouts and Kale; will be found very delicious if you have never tried it; give it a place in your garden this coming season. Pkt. 10c; oz. 15c; 1/4 lb. 30c; lb. 75c.



Corn Salad

## Corn Salad

(German—Acker Lattich.  
French—Mâche)

**Culture**—Sow in Spring, in drills one foot apart; it will mature in six to eight weeks. For Winter and early Spring use, sow in drills in August and September. Three ounces of seed to 100 feet of drill. Will do well if sown in spring.

**Large Leaved**—  
Pkt. 10c; oz. 15c;  
1/4 lb. 25c; lb. 75c

Mr. E. J. T. Carvel, of Stenvensville, Md., writes and says that our seeds are better than he has had from any body. He also says that he is well pleased with the way we have been handling his orders.



Danvers Half-Long.

## Celery

(German—Sellerie. French—Celeri)  
One ounce will produce about 2,000 plants.  
We pay postage on pkts., ozs., 1/4 lbs. and 1 lbs.



M. & S. Magnificent

**Culture**—Sow the last of March or early in April, in an open border, in rich, mellow ground, in shallow drills, watering freely in dry weather. By rolling or pressing in the seed the result will be more satisfactory than when covered. Cut the tops off once or twice before planting out, to make them stocky. When the plants are five or six inches high transplant the dwarf varieties 3 feet, and the taller sorts 4 feet between the rows; plant 6 inches apart in the rows. Cultivate well, and when large enough, blanch by earthing up.

The first operation is that of "handling," generally done the beginning of September; after the soil has been drawn up with the hoe it is drawn closer around each plant by the hand to keep the leaves firm, in an upright position, and to prevent spreading. When the plants have become set in an upright position the Celery wanted for early use should be banked, by throwing the soil up as close to the plants as possible with a plow and finishing it with a spade, bringing the earth up nearly to the tops of the plants.

**M. & S. MAGNIFICENT**—It is well named for its many good qualities; it is a semi-late sort, coming into use about January. The stalks which blanch almost white are exceedingly brittle, so that it has a tendency to melt in the mouth; it is a truly good sort and should be planted extensively. Pkt. 10c; oz. 25c; 1/4 lb. 75c; lb. \$2.50.

**M. & S. MONARCH**—This variety is a decided acquisition in green Celery, producing large stalks, and magnificent bright golden yellow heart. The stalks are very solid, brittle and of most delicious flavor, and entirely free from stringiness. It is a remarkably good keeper and presents a handsome appearance when ready for the table. Pkt. 10c; oz. 25c; 1/4 lb. 75c; lb. \$2.50.

**M. & S. Golden Plume**—Resembles Golden Self Blanching, but is larger and ranker in growth, more plainly ribbed, blanches quicker, matures earlier, does not blight and is just as crisp and has the same flavor. Pkt. 25c; 1/2 oz. \$1.25; 1 oz. \$2.25; 1/4 lb. \$7.50.

**Golden Self-Blanching**—For early use; preferred by many to all other sorts; as self-blanching as White Plume, and simply needs a slight earthing-up. Pkt. 10c and 25c; oz. 40c; 1/4 lb. \$1.25; lb. \$3.75.

**French Golden Self-Blanching**—(Pure Stock). Pkt. 10c and 25c; oz. \$1.00; 1/4 lb. \$3.50; lb. \$12.00.

**White Plume**—Unsurpassed for Fall and early Winter use, requiring very little earthing-up to blanch it. Pkt. 10c; oz. 25c; 1/4 lb. 60c; lb. \$2.00.

**Giant Pascal**—The stalks are very large, thick, solid, crisp and of a rich nutty flavor, good keeper. Pkt. 10c; oz. 25c; 1/4 lb. 60c; lb. \$2.00.

**Golden Heart**—Largely used, always giving satisfaction; a showy sort; solid, of fine flavor and a good keeper. Pkt. 10c; oz. 25c; 1/4 lb. 60c; lb. \$2.00.

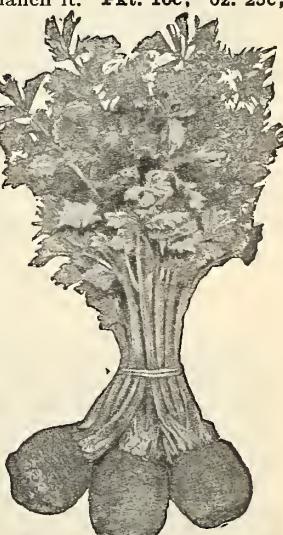
**Boston Market**—A short, bushy variety, constantly increasing in demand. Pkt. 10c; oz. 25c; 1/4 lb. 60c; lb. \$2.00.

**Winter Queen**—This variety grows a very thick, solid and heavy stalk, and has a large heart. It is a close, compact grower, and when blanched is a creamy-white color. Priced same as above.

**Pink Plume**—The stalks when blanched are a beautiful rose-pink. Pkt. 10c; per 1/2 oz. 20c; oz. 35c.

## CELERY PLANTS, SEE PAGE 5.

**Giant Prague Celeriac**—This is unquestionably the largest and best Celeriac in existence, very large, almost globe-shaped, smooth, with only a few roots at the bottom. Flavor is excellent. Pkt. 10c; oz. 25c; 1/4 lb. 60c; lb. \$2.00.



Giant Prague Celeriac.



M. &amp; S. Early Snowball Cauliflower.

## Cauliflower

(German—  
Blumenkohl.  
French—  
Chou-Fleur)

One ounce of seed  
for 1,500 plants.

**Culture** — When grown to perfection this is a most delicious vegetable, and well repays generous treatment in cultivation. With a deep rich soil, and an abundance of moisture, which in dry seasons must be applied artificially, Cauliflower can be grown well. The cultivation is similar to that of Cabbage. For early Fall crops, sow in May and transplant in June, in rows of four feet

apart, setting the plants two feet apart in the row; water frequently if the ground is dry. Frequent hoeing and a liberal supply of rich, liquid manure, to keep up a continuous and rapid growth, will produce splendid heads of the most delicate flavor. It facilitates blanching if the leaves are gathered loosely together and tied over the top of the head to protect it from the sun. Cut before the flowers begin to open. Sow as late as June 20 for late crops, in beds or in hills, covering one-half inch deep.

**M. & S. EARLY SNOWBALL** — An extremely early dwarf variety, producing magnificent white heads of fine quality. Well adapted to hotbed culture and outdoor. Pkt. 10c, 25c and 50c; oz. \$1.50;  $\frac{1}{4}$  lb. \$5.00.

**Dry Weather or Danish Giant** — The great drought-resisting variety; the heads are large, snow white and are protected with a liberal growth of foliage. This is the ideal variety to plant for summer use if you want to be sure of cauliflower at that season. Pkt. 10c, 25c, 50c; \$1.50 per oz.;  $\frac{1}{4}$  lb. \$5.00.

**Select Early Dwarf Erfurt** — Of highest excellence, and for field culture not much surpassed by any type of newer name. Some so-called new varieties appear to be identical with Select Erfurt. Pkt. 10c, 25c and 50c; oz. \$1.50;  $\frac{1}{4}$  lb. \$5.00.

**Veitch's Autumn Giant** — A distinct and valuable late variety; heads large and fine, well protected by foliage. Pkt. 10c; oz. 75c.

CAULIFLOWER PLANTS, PAGE 5.

## SWEET, or SUGAR CORN

(German—Zuckermais. French—Mais)

One quart will plant 200 hills;

eight quarts in hills to acre.

Sugar Corn varies in weight according to variety. We have decided to list 44 lbs. as a bushel, except Adams and Red Cob or 90 Day, which weighs 56 lbs. to bushel.

**Culture** — The Sweet or Sugar varieties, being liable to rot in cold or wet ground, should not be planted before May, or until the ground has become warm; for a succession, continue planting every two weeks, until the middle of July, in rich, well-manured ground, in hills three feet apart each way, covering about half an inch, and thin out to three plants to a hill. Extra early varieties can be planted 18 inches in the row and 2½ feet between the rows. The field varieties should be planted four feet apart each way, leaving three plants to a hill.

**Extra Early Adams** — Height of stalk three to four feet, ears set within six inches of ground. Not a sugar corn, but a decided acquisition so early in the season. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; pt. 25c; qt. 40c;  $\frac{1}{2}$  peck 75c; peck \$1.25; bus. \$4.75.

**Early Adams** — Similar to Extra Early Adams; larger, but not so early. Price same as above.

**Bardens Wonder Bantam** — A yellow sugar corn with all that the name implies, making ears up to 9½ inches long; deliciously sweet and of unsurpassed flavor. Matures only about a week later than Golden Bantam. A strong grower and very productive. Pkt. 10c;  $\frac{1}{2}$  pt. 20c; pt. 30c; qt. 50c;  $\frac{1}{2}$  peck \$1.25; peck \$2.25. See illustration, below.

**Black Mexican** — An old favorite, being very tender and sweet. Price same as above.

**Whipple's Early White** — This is an extra early variety with the deep grain of the Evergreen type. It matures in 65 days. The stalks are 5 to 6 feet high of vigorous growth; the ears are produced 1½ feet from the ground, often two to the stalk and are 8 inches long, rather "blocky" in form, 16 to 18-rowed, filled to the end with rather narrow, deep wedge-shape grains of pearly whiteness and high sugar content. Price same as above.

**EARLY SHEFFIELD** — The best early Sugar Corn for truckers, making fine large ears. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; pt. 25c; qt. 40c;  $\frac{1}{2}$  peck \$1.25; peck \$2.00; bus. \$7.50.

Gentlemen:

Send me one of your catalogues. I had half a pound of your M. & S. Early Snowball Cauliflower last year and it was fine.

Yours truly,

A. W. FLUHARTY

Preston, Md.

**Golden Bantam** — Extremely early. A true sugar corn. The grain when ripe is a bright golden-yellow, the flavor is exceptionally rich and sugary. Produces from two to three good ears to the stalk. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; pt. 25c; qt. 40c;  $\frac{1}{2}$  pk. \$1.25; pk. \$2.00; bus. \$7.50.

**Howling Mob** — Another new early Sugar Corn, with fine, large ears, excellent for truckers or the home gardener. Price same as above.

**Peep-O-Day** — This corn has two valuable points—extraordinary earliness and unsurpassed sweetness. Price same as above.

**GOLDEN CREAM** — The originator says: "It is good enough to eat raw." It is a cross between Country Gentleman and Golden Bantam; has the color of the latter and the fine quality of the former. It is really a very early yellow Country Gentleman—that means earliness, good size and first-class roasting ears. Price same as above.

**M. & S. SNOW WHITE EVERGREEN SUGAR CORN** — It produces large uniform ears, which are well filled to the top with beautiful white kernels; it is 10 to 12 days earlier than Stowell's Evergreen. Splendid sort for market and home garden; keeps well after being cut. Price same as above.

**Country Gentleman or Shoe Peg** — A short-stalked, productive sort. Ears large for so small a stalk; grain narrow and very deep; excellent quality. Price same as above.

**Stowell's Evergreen** — Matures for table in about 80 days from germination. Price same as above.

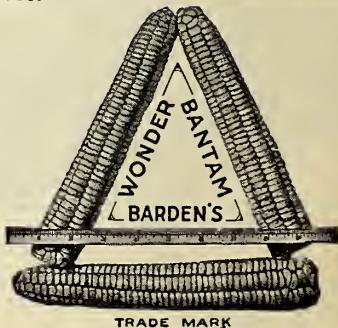
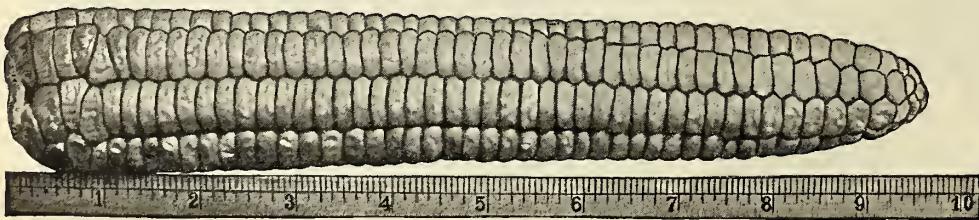
**Early Mammoth** — Price same as above.

**Late Mammoth** — Price same as above.

**Red Cob, or 90-Day Corn** — A distinct and well-known sort of white corn; matures in about 90 days; produces large, handsome ears. 1 pt. 20c; qt. 35c;  $\frac{1}{2}$  peck 65c; peck \$1.00; bus. \$4.50.



Reproduction is one-half natural size of ear.



TRADE MARK

We pay postage on pkts., ozs.,  $\frac{1}{4}$  lbs. and 1 lbs.

## Cucumber

(German—Gurke. French—Concombre)

One ounce will plant fifty hills; two pounds, one acre.

**Culture**—For very early Cucumbers, sow the first of April in a hotbed, upon pieces of sod or in small pots, so that they can be readily transplanted to the open ground (in rich soil) when danger of frost is over. For general crop plant, if the weather has become settled and warm, in hills about four feet apart each way; thin out to four of the strongest plants to each hill. They succeed best in a warm, moist, rich, loamy soil. For succession sow until the middle of August.



Early Fortune Cucumbers.

**Early Fortune**—A great favorite with our Anne Arundel County farmers for its early maturity, productiveness, uniformity in large size, dark green color. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.

**New Klondike**—One of the best for shippers. Grows vigorous vines, fruits early and abundantly. Dark green in color, large size, and of fine flavor. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.

**Improved Early White Spine**—Old standard favorite. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1. Special prices on large quantities.



New Klondike.

**Arlington White Spine**—Another standard sort. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1. Special prices on large quantities.

**Improved Long Green**—long and crisp; a popular and reliable variety for pickles. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

**Japanese Climbing**—Distinct from other varieties, being a real climber. Very prolific of fruit. A valuable, interesting novelty. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c.

**Jersey Pickle**—Productive and said to "green" better than any other variety, to "hold color." Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.

**Early Green Cluster**—A short, prickly variety, bearing clusters, prolific. Fine for bottle pickles. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.

**Small Gherkin, or Burr**—Used only for pickling while young and tender. Pkt. 10c; oz. 25c.

**Danish Pickle**—An extremely large, long cucumber of Danish origin, it is thickly covered with fine spines. It is early in maturing, extremely prolific, will bear fruit during a longer period of time than any variety we are acquainted with. It is not inclined to produce nubbins or ill-shaped fruit in severe weather as are many of the other large varieties. Size 15 x 3 ins. Edible in 56 days. Weight 3½ lbs. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c.

**Lemon Cucumber**—A very productive variety with round or slightly oval fruits of light creamy yellow color; of distinctive flavor and desirable quality either for slicing or pickling. The fruits are ready for slicing when just starting to turn yellow. For pickling they may be used either green or ripe. Pkt. 10c.



Early Green Cluster.

**English Forcing Telegraph Cucumber**—These are ideal for growing outdoors as well as under glass. They produce enormous fruits, generally 18 to 24 inches long and 3 inches in diameter. They have a delicate flavor and possess very few seeds; for slicing, no other sorts can approach them. Pkt. of 12 seeds, 25c; 100 seeds, \$1.25.



M. & S. Cool and Crisp.

**Boston Pickle**—A short fairly smooth, symmetrical cucumber and one of the most popular in use. It is extremely early and productive. Size 6 x 2½ ins. Edible in 58 days. Weight 1½ lbs. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00.

**M. & S. COOL AND CRISP**—Ideal for home and market gardening. Extra early and very prolific, long straight, slender and very dark green; good either for pickling or slicing. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

## Cress : Chervil

(German—Kresse) (German—Kerbel)

**Water Cress**—Sow early in spring near pond or running water; when established will last for years. Pkt. 10c; oz. 50c.

**Land Cress or Pepper Grass**—Sow in early spring in rows two feet apart, and repeat often as it runs to seed very quickly. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c.

**Chervil**—Sow like the above, used as a salad seasoning. Pkt. 10c; oz. 25c.

## Dandelion

(French—Pissenlit. German—Loewenzahn.)

One ounce to 100 feet of row.

**Culture**—Plants usually come up small and feebly. Sow seed in good clean loam, in drills 1 foot apart, and thin or transplant to 10 or 12 inches apart in the rows. May be blanched by covering with leaves or other loose litter, or by placing a large inverted flower pot over each plant.

**Broad-Leaved**—Pkt. 20c; oz. \$1.00;  $\frac{1}{4}$  lb. \$3.50.

**Improved Thick-Leaved**—An improved variety. Pkt. 20c; oz. \$1.00;  $\frac{1}{4}$  lb. \$3.50.

## Eggplant

(German—Eierpflanze. French—Aubergine)  
One ounce will produce about 1,000 plants.

**Culture**—Eggplant seed will not vegetate freely without a strong, uniform heat, and if the plants get the least chilled in the earlier stages of growth they seldom recover. Therefore repeated sowings are sometimes necessary.

**M. & S. Ebony King**—As its name implies it is almost black, large size, perfect shape, thornless, great drought resister and splendid bearer. Pkt. 10c;  $\frac{1}{2}$  oz. 25c; 1 oz. 50c;  $\frac{1}{4}$  lb. \$1.75.

**New York Improved Purple**—The leading market variety; of large size, skin deep purple smooth, free of thorns; flesh white, of excellent quality; very productive. Pkt. 10c; oz. 40c;  $\frac{1}{4}$  lb. \$1.25.

**Black Beauty**—The earliest large variety; color, rich, dark purple. Pkt. 10c; oz. 40c;  $\frac{1}{4}$  lb. \$1.25.



M. & S. Ebony King.

EGGPLANT PLANTS, SEE PAGE 5.

## Whitloof Chicory, or French Endive

(German—Succory. French—Chicoree.)

**Whitloof Chicory, or French Endive**—Known in restaurants as French Endive. We want to get our customers interested in this delicious vegetable, and feel confident that after it has once been tried it will become quite as popular as Swiss Chard, which was only planted very sparingly a few years ago. Every garden should have a row of Whitloof Chicory and we feel sure that every amateur or experienced gardener will be pleased with the results. Whitloof is eaten raw or as a salad, and is also sometimes cooked like ordinary Endive. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

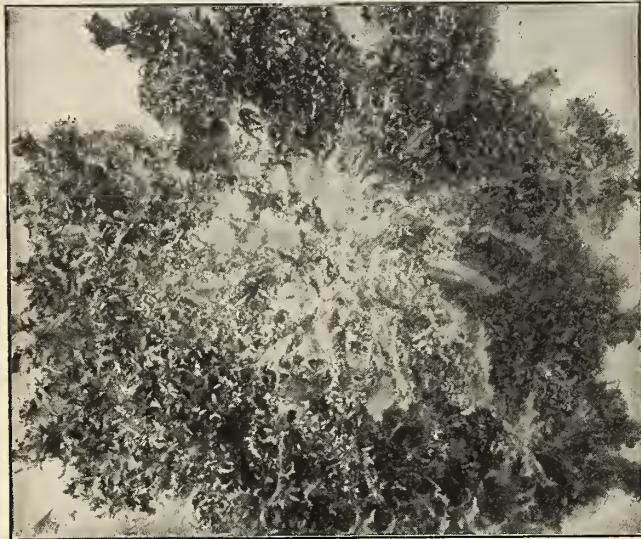
**Large Rooted Chicory**—The roots are dried and ground and used for flavoring or to substitute coffee. It can also be served like salsify. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

We pay postage on pkts., ozs.,  $\frac{1}{4}$  lbs. and 1 lbs.

## Endive

(German—Endivie.  
French—Endive)

**Culture**—Sow in June, July and August; cover lightly; when up thin out to eight inches apart, and water well afterwards, if dry. When the leaves are 6 to 8 inches long, blanch by gathering in the hand and tying together near the top with yarn or bast. This must be done when quite dry or they will rot. At the approach of Winter, take up carefully, with a ball of earth to each plant, and place close together in frame or cellar for use. They must be kept dry and have plenty of air.



White Curled Self Blanching Endive.

**Green Curled**—Tender and crisp. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1b. \$1.25.

**White Curled**—Self-blanching. Very tender when young; blanches readily. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1b. \$1.25.

**Broad Leaved Batavian (Escarrole)**—This variety is chiefly used in soups and stews; it requires to be tied up for blanching. Pkt. 10c; 1 oz. 15c;  $\frac{1}{4}$  lb. 40c; 1b. 1.25.

## Herbs

(German—Kraeuter.  
French—Herbes)

**Culture**—Herbs delight in a rich, mellow soil. Sow seeds early in Spring in shallow drills, one foot apart; when up a few inches thin out to proper distances, or transplant. They should be cut on a dry day just before they come into full blossom, tied in bunches and hung up or spread thinly where they can dry quickly.

Anise—Pkt. 10c.

Balm—Pkt. 10c.

Bene—Pkt. 10c.

Catnip—Pkt. 10c.

Cumine—Pkt. 10c.

Pennyroyal—Pkt. 10c.

Peppermint for Flavoring—  
Pkt. 10c.

Tansy—Pkt. 10c.

Borage—Pkt. 10c.

Caraway—Seeds used to flavor bread. Pkt. 10c; oz. 25c.

Coriander—Pkt. 10c.

Dill—The seeds are used as a condiment and for pickling. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1b. 75c.

Fennel, Sweet — A hardy perennial indigenous to Southern Europe. The leaves are extensively used in sauces for flavoring. Sometimes eaten raw. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c.

Horehound — For medicinal purposes and flavoring. Pkt. 10c.

Lavender—For flavoring and perfumery. Pkt. 10c.

Martynia — Produces long green pods which are used for pickling. Pkt. 10c;  $\frac{1}{4}$  oz. 25c.

Rosemary—Leaves used for seasoning. Pkt. 10c.

Rue—Pkt. 10c.

Sage — For seasoning and dressing. Pkt. 10c; oz. 40c.

Summer Savory—Used for flavoring. Pkt. 10c; oz. 25c.

Sweet Basil—For flavoring soups. Pkt. 10c; oz. 25c.

Sweet Marjoram — Leaves and ends of shoots used for seasoning. Pkt. 10c; oz. 40c.

Saffron—For medicinal and coloring purposes. Pkt. 10c.

Thyme (Broad Leaf) — For seasoning, also for making tea for nervous headache. Pkt. 10c; oz. 50c.

Woodruff—A sweet scented herb which is used as essence in the German Maitrank. Pkt. 15c.

Wormwood—Pkt. 10c.

## Finocchio, or Florence Fennel

A delicious vegetable which should be more largely grown. It is extensively used in Italy as a salad, but is particularly palatable when served boiled, with a cream dressing. When the enlargement of leaf stalk, at base of stem, is about the size of a hen's egg it should be earthed up so as to cover half of it, and in about ten days cutting for use may be commenced and continued as the plants increase in growth. The flavor is somewhat like celery, but it has a sweeter taste and delicate odor. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

## Kohl-Rabi

One ounce will sow 150 feet of drill.



Earliest White Vienna Kohl-Rabi.

## Kale, or Borecole

(German—Kranskohl.  
French—Chou Vert)

One ounce sows a drill of about 100 feet. 2 to 3 lbs. to the acre.

**Culture**—Sow from May to June, and cultivate same as Cabbage. For early Spring use, sow in September, and protect during Winter. The Kales are more hearty than Cabbage, and make excellent greens for Spring and Winter use, and are improved by frost.

### BORECOLE PLANTS, SEE PAGE 5.

**Emerald Isle Kale**—This is really the handsomest Kale that has ever come under our notice, and is entirely distinct from other strains. The closely curled, handsome leaves are most attractive. A fine exhibition plant of medium height. Very hardy. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1b. \$1.00.

**Dwarf Green Kale**—Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 50c.

**Tall Scotch**—Best for Summer. Very spreading, nicely curled and hardy; frost improves it. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1b. \$1.

**New Imperial Curled Long Standing**—The leaves are very crimped and of a dark green color. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 50c.

**Dwarf Green Curled Scotch, or Norfolk**—One of the most popular shipping sorts; very largely used in Norfolk trucking district. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 85c.

**Sea Kale**—Not a true Kale (a member of the Cabbage family) but a perennial which should be grown and cultivated like rhubarb. The edible parts are the young, strong shoots that come up in early spring. When blanched, they are cooked and served like asparagus, or the leaves may be used as greens. Pkt. 10c; oz. 30c.

Borecole—  
Hardy Winter.

**Borecole, Hardy Winter**—This variety is grown and treated like cabbage. The plant attains a height of 18 inches, with an abundance of beautiful light green leaves which are densely curled and crimped. Besides being very hardy it possesses the advantage of all other varieties in forcing a second crop of moss-curled leaves as soon as the first ones are gone. This new growth is of the finest quality, and is ready for market during the Winter and early Spring months, when it demands fancy prices. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; 1b. \$2.00.

Do not forget to order that bag of **WIZARD BRAND SHEEP MANURE**. It will make your garden more of a success.

We pay postage on pkts., ozs.,  $\frac{1}{4}$  lbs. and 1 lbs.

Don't Forget to Order That Cart Load of Manure in a 100-Pound Bag

## M. & S. CHOICE STRAINS OF LETTUCE

(German—Salat. French—Laitue.)

Two ounces of seed to 100 yards of row; one ounce for 2000 plants

**Culture**—Lettuce is now sown during most all seasons of the year. For outdoor use the seed can be sown in well-manured hotbeds in February and March. Transplant there or outdoors when the weather will permit, in rows about 12 inches apart, 10 inches apart in the row. If the salad is not to head, sow thickly and cut as desired. For best results it is well to sow only the varieties best suited to the different seasons and conditions. For winter use sow the seed in September in hotbeds and follow it with other sowings for succession.



Big Boston Lettuce

**Big Boston**—Resembles Boston Market, but nearly twice as large, desirable for forcing and Spring and Fall outdoor planting. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

**Los Angeles, New York, or Wonderful**—This very large heading lettuce is desirable not only as a garden variety for summer use but is much used as a fall and winter market sort. It is the variety largely grown in California and shipped to eastern markets under the trade name of Iceberg. The plant is very large but compact and tight heading; outer leaves attractive deep green, broad, frilled at edges. The inner leaves form a large head, very sweet and tender when in condition for use. Cultivate same as Big Boston. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**May King**—This valuable Lettuce is, without any question, one of the best Lettuces on the list for early Spring planting in the open ground. The heads are six to seven inches in diameter, of a clear light green, the outer leaves being slightly tinged with brown, the inner being clear, bright yellowish, with very rich, oily flavor. It is an excellent market sort, the round, compact heads being so solid that they carry extremely well. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

**Romaine White Paris Cos**—Has long, narrow, upright leaves; does not head, but when tied up blanches very nicely. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; 1 lb. \$2.00.

**Best of All**—A great drought and heat resister; forms large compact heads of light green leaves and yellow heart. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

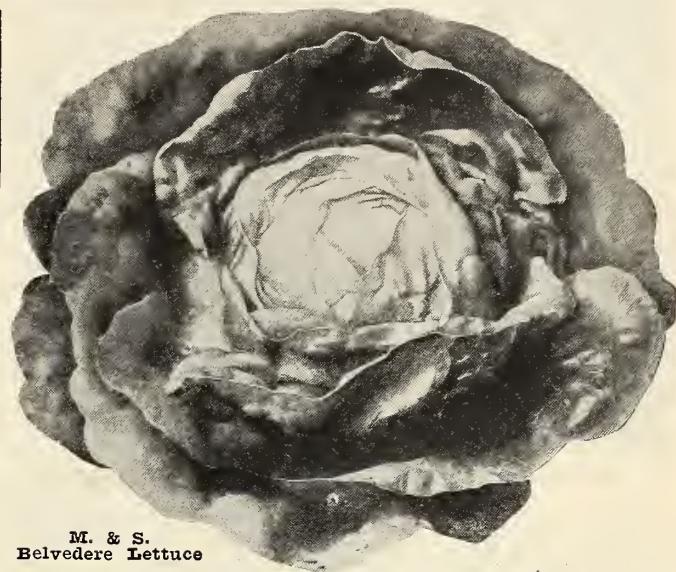
**Grand Rapids**—Excellent for forcing, fine quality, large, loose, yellowish-green head, stands well. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 60c; 1 lb. \$1.50.

**California Cream Butter**—A good Summer sort, of reliable heading quality. Yellowish-green, slightly

marked with brown specks. This is a variety growing in favor. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

**Boston Market, or White-Seeded Tennisball**—Early and compact, quite desirable, good forcer. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

**Black Seeded Tennis Ball**—Similar to above. Price same.

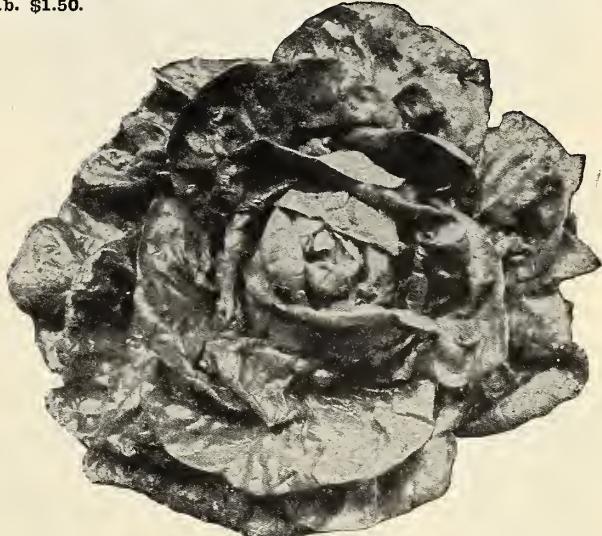


M. & S.  
Belvedere Lettuce

**M. & S. BELVEDERE LETTUCE**—In 1912 we introduced this strain Lettuce after having it in our trial grounds for two seasons, and we were amply repaid by the success which our Truck Farmer customers had with it. The M. & S. Belvedere is extremely slow in running to seed; it is therefore the ideal Lettuce to plant in the Spring, as it withstands the Summer heat better than any variety we have known so far. It is all green, no red edges, is tender and crisp and has a fine yellow heart. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Oak Leaf**—Quite popular. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

**Iceberg**—Leaves green, heads large, solid; one of the best large-growing cabbage lettuces. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.



All Season M. & S. Strain.

**M. & S. STRAIN ALL-SEASON**—A cabbage lettuce of sterling merit, making larger and more closely folded heads than any other known variety. The outer leaves are a bright, soft green, the inner ones rich golden yellow. The solid heads measure from eight to ten inches across. Black seed. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

**Way-a-Head**—Similar to the above, but suitable for all-season in or out-door planting. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

**Black Seeded Simpson Lettuce**—Fine, large, loose heads, early, finely fringed and curled; very popular for family garden and forcing. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

LETTUCE PLANTS POPULAR VARIETIES, SEE PAGE 5.

We pay postage on pkts., ozs.,  $\frac{1}{4}$  lbs. and 1 lbs.

Flag Leek

## Leek

(German—Lauch. French—Poireau)  
One ounce to 150 feet of row.

**Culture**—Sow the seed and care for the young plants same as for Onions, but they need a little more room to develop fully. When the young plants are about the size of a goose quill, transplant into a prepared bed in rows one foot apart and four to five inches in the rows. Set the roots deep and draw the earth to them when cultivating, so that they may be well blanched by the time they are fit for use.

**Giant Carentan**—Produces a large, thick stem and of mild flavor. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.75.

**American or Flag**—One of the hardiest and best for Winter use. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.75.

## Pure Culture, Spore Process Mushroom Spawn

Prices for Pure Culture, Spore Process Spawn (if ordered to be sent by Parcel Post, include postage, according to zone; a brick weighs  $1\frac{1}{4}$  lbs). 1 brick, 25c; 5 bricks, \$1.00; 25 bricks, \$4.50; 50 bricks, \$8.50; full case, 100 bricks, \$16.00.

**Mushroom, or Hotbed Thermometers**—Wood frame, heavy brass point. Price, \$2.25. Parcel post weight, 2 lbs.

Leaflet on Growing Mushrooms free.

## Mustard

(German—Senf. French—Moutarde)  
One ounce will sow 100 feet of drill.

**Culture**—A small, pungent salad, used like cress; the seed is also used for flavoring pickles, pepper sauce, etc. For salads sow thickly in shallow drills 6 inches apart. Since plants go to seed quickly, short rows should be sown frequently, rather than long ones at one time. Successive sowings can be made every week or two. To grow seed, sow in April, in rows 1 foot apart, and thin out to 3 inches apart when 2 inches high.

**Chinese**—Large, light green leaves, frilled at edge. Pkt. 100; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

Southern Giant Curled — Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

## Okra, or Gumbo

(German—Safran)  
Four ounces to 40 feet of drill.

**Culture**—Sow the seed thickly in rich ground about the middle of May, or when the ground has become warm, in drills three feet apart, one inch deep; thin to 10 inches apart in drills. Grown for its green pods, which are used in soups, stews, etc., to which they impart a rich flavor, and are considered nutritious.

**White Velvet, or Lady Finger**—Bears round, white, smooth pods, unlike other varieties, which are ridged or square edge. The pods are of extra large size, and are produced in great abundance. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.

**Improved Dwarf Green Prolific**—Of dwarf growth, but immensely productive and very early. Short, thick, green pods. Home grown seeds of superior quality. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.

**Perkins' Mammoth Podded**—A distinct, valuable new okra. Its productiveness is simply wonderful. The pods shoot out from the stalk within three inches of the ground, and the whole plant is covered with them to the extreme of its height. The pods are of an intense green color, of unusual length—eight or nine inches—and do not get hard, as is the case with other okras. Very superior for canning. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 60c.



Improved Dwarf Green Prolific Okra

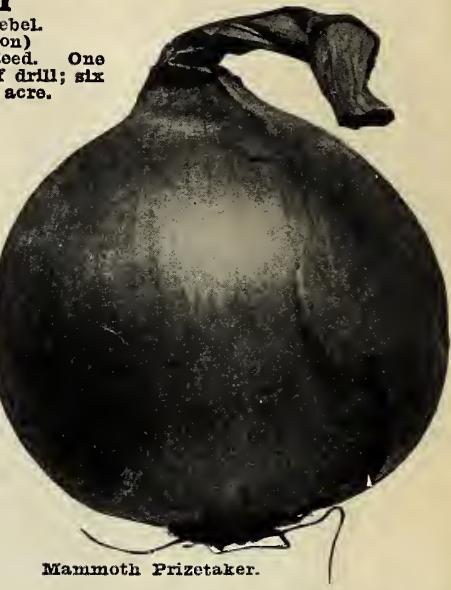
## Onion

(German—Zwiebel.

French—Eignon)

American Grown Seed. One ounce for 100 feet of drill; six pounds for one acre.

**Culture**—For sets sow the seeds early as possible in the Spring, very thickly in drills. As soon as the tops dry off in the Summer remove them to a dry, airy place, and early in the following Spring replant by placing the sets in shallow drills 12 inches apart and about four inches apart in the drills; the Onions of this process obtained are of large size early in the season also be grown to full size during the first season by sowing thinly in drills one foot apart and about one-quarter inch deep in March or in early April, in strong land, well manured, and thinning them out to stand 3 or 4 inches apart in the drills



Mammoth Prizetaker.

**Prizetaker**—This is the large, pale yellow onion that is offered for sale in fruit stores and markets in the Fall. It grows to a very large size; flesh white, of mild and delicate flavor. The large onions are raised the first year from seed, and with ordinary culture produce enormous crops. The onions sometimes go over three pounds each in weight where good soil and culture is given them. Our seed is pure and genuine. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.25.

**Yellow Globe Danvers**—One of the most extensively used yellow onions. Price same as above.

**Large Red Wethersfield**—Grows to full size the first season from seed; almost round, large size, deep red color, and keeps well. Price same as above.

**White Silver Skin**—Ripens early; of large size, mild in flavor and excellent for Winter use; much esteemed for pickling when small. Price same as above.

**Australian Brown**—A brown skinned onion which grows to a good size the first season. Price same as above.

**Southport White Globe**—The earliest of the Southport Globes, perfecting a very handsome product within 90 days from sowing seeds. The bulbs are pure white and of a very mild flavor, also equally as good for keeping as the Yellow Globe. The flesh is remarkably firm and solid. It is an enormous yielder, and as it is very attractive, always sells at high prices. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. \$1; 1 lb. \$3.50. **ONION PLANTS, SEE PAGE 5.**

**White Bermuda**—They are of a mild and delicate flavor, and keep longer than any foreign variety. They will produce full-grown onions from seed the same season. Pkt. 10c; oz. 50c.

**Red Bermuda**—Pkt. 10c; oz. 50c.

**Chives Seed**—Pkt. 10c; oz. 75c.

## Onion Sets

One quart will plant a row about 50 feet; 10 to 15 bus. to 1 acre.

Used for an early crop of onions, and should be planted just as soon as the ground can be worked. Press the bulb lightly in the ground and do not cover; in rows 12 inches apart, 2 inches apart in the row; so that all the development goes in the onion; on signs of their going to seed, bend the top over, but do not break it off. They can be harvested in this locality for Winter storage as early as July 10th. The advantage in planting sets lies in the fact that the young onion is ready in five weeks from time of planting, while those grown from seed cannot be used until well in the Autumn. Shipped on local orders about March 1st, unless otherwise requested.

**Yellow Danvers**—Pkt. 15c; qt. 25c; pk. \$1.25; bu. of 32 lbs. \$3.75.  
**Large Red Weatherfield**—Pkt. 15c; qt. 25c; pk. \$1.25; bu. of 32 lbs. \$4.

**White Silver Skin**—Pkt. 15c; qt. 25c; pk. \$1.25; bu. of 32 lbs. \$4.25.

**Japanese, or Ebenezer Onion Sets**. This variety is globe-shaped, about the color of a yellow Danver, is very solid and has a mild flavor. It will keep longer than any other variety. Price same as above.

**Multiplier Onion Sets**, yellow and white and Egyptian Top Onion, Brown, are furnished in Sept. and Oct. Market price.

Price on Onion Sets subject to change.

Prices on larger quantities furnished on request.

If ordered to be sent by Parcel Post, include postage according to zone; a quart of Onion Sets weighs about 1 lb.

We Pay Postage on Pkts., Ozs.,  $\frac{1}{4}$  lbs. and Lbs.

## MUSKMELONS or CANTALOUPES

(German—Melone. French—Cantaloup). One ounce will plant about 50 hills; two to three pounds in hills to acre.



Bottomly Cantaloupe.

**Culture**—Thrives best in light, rich soil. Plant early in May, in hills six feet apart. Manure in hill and sow seed freely. After danger from bugs is past thin to three plants per hill. When one foot long, pinching off tips makes vines branching and strong, and fruit will mature earlier. Water freely and feed liquid manure occasionally. For early use, sow in hotbed, on piece of sod.

**SALMON-TINT NO. 10-25**—This is an early melon of the solid netted type that is so desirable. Very small seed cavity, with thick, luscious flesh of genuine salmon-tint shading to green near the rind. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.25.**

**Bottomly Cantaloupe**—True Anne Arundel strain. Great favorite with the Anne Arundel County truckers and private gardeners. Medium size, oblong, deeply netted, green flesh and delicious flavor. Our illustration shows this splendid variety so true to nature that there is no further need of describing it. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.75.**

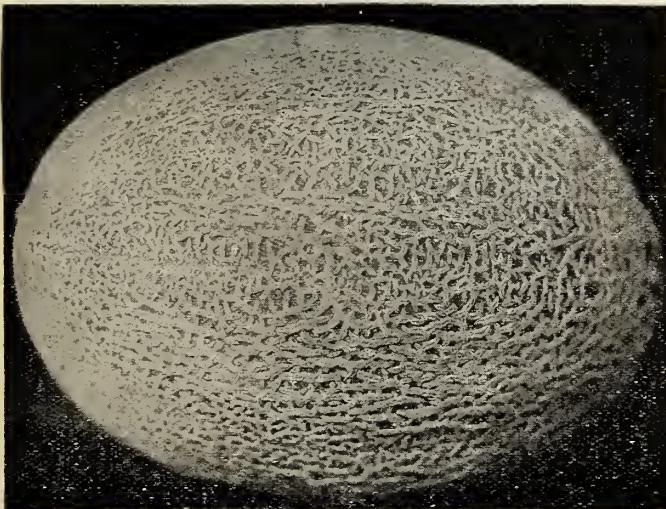
**M. & S. GOLDEN WONDER CANTALOUPE**—Most delicious flavored golden yellow meat, which is thick and solid. Medium size, oval in shape, very vigorous and productive vines, which are great drought and blight resisters. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.**

Gentlemen:

The Early Wonder Tomatoes which I grew from your seed this season were the best I have ever put on the market.  
Yours truly,

TURNER WATSON

We do appreciate hearing from pleased customers.



M. & S. Delicious Gold Lined Rocky Ford.

**Rocky Ford**—We have a very fine stock of this popular cantaloupe. Small, oval, of excellent quality and a good shipper; early; green fleshed. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. \$1.00.**

**M. & S. DELICIOUS GOLD-LINED ROCKY FORD CANTALOUPE**—Its shape is ideal, very slightly oval, no ribs, and is heavily netted over the entire melon. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.25.**

**Early Netted Gem**—One of the best of small melons, and very popular. Prolific and of excellent quality. Very early. A great favorite. Green fleshed. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. \$1.00.**

**Emerald Gem**—Small, green skin, and delicious yellow flesh. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. \$1.00.**

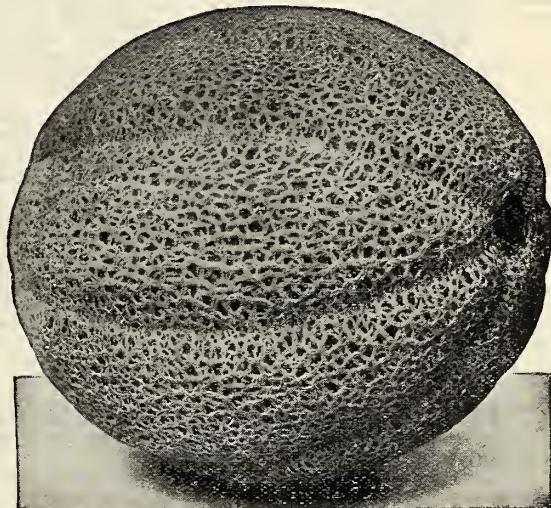
**Acme, or Baltimore Nutmeg**—A great favorite for retail market and for shipping. Large, oval, deeply netted, solid and of fine quality; green fleshed. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. \$1.00.**

**Jenny Lind**—Very early, small, round, netted and of fine quality; green fleshed. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. \$1.00.**

**Hackensack, or Turk's Cap**—A very fine, large sort; green fleshed. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. \$1.00.**

**Miller's Cream, or Osage**—Melons are large and round, with light green, netted skin, and thick, sweet, salmon-colored flesh. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. \$1.00.**

**Knight Cantaloupe**—True Anne Arundel County grown strain. The great favorite of the Baltimore market, of good size, deeply netted, green flesh, and delicious flavor. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.75.**



Rocky Ford Cantaloupe.

**Banana**—This melon surpasses all others in its delicious fragrance. The flesh (the melon being nearly solid) is of a rich salmon. The quality is first rate when the melon is thoroughly ripe. It grows from 20 to 28 inches in length and is very prolific. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c.**

**Montreal Market**—The large fruits are nearly round in form, slightly flattened at ends, with very large, broad, heavy ribs. Dark green skin, thickly covered with heavy netting. The flesh is two inches thick, light green, melting, and of delicious flavor. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. \$1.00.**

**New Honey Dew**—Produces a melon with smooth, almost white rind, measuring about six inches in diameter by seven to eight inches long. The green flesh is thick and is of a peculiar sweet flavor, resembling a well-ripened banana. To have the melons in the best condition we suggest gathering (or picking) as soon as they slip from the vine and store in a cool place for two or three days before serving; they apparently are at their best when a trifle over-ripe. While we cannot yet recommend Honey Dew for general culture, we offer selected seed at: **Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.**

**HONEY DEW**—Pink-fleshed, same as the above with the exception that the flesh is of a beautiful pink tint and highly flavored. Price same as green-fleshed.

We pay postage on pkts., ozs.,  $\frac{1}{4}$  lbs., and 1 lbs.

## Parsnip

(German—Pastinake.  
French—Pannais.)One ounce for 200 feet of  
drill; five to six pounds  
for an acre.

**Culture**—Sow as early in the Spring as the weather will permit, in drills 16 inches apart and one-half inch deep, in a rich, deep soil; thin out to six inches apart in the rows. The quality of the roots is improved by leaving them in the ground over Winter for Spring use.

**Improved Hollow Crown**—The best variety. A great cropper, roots long, very smooth, white, tender, sugary, and of excellent flavor. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

## M. & S. Improved Jumbo Peanuts

(German—Erdnusse.  
French—Pistache de terre.)

**Culture**—Plant in May or early June, in rows about  $2\frac{1}{2}$  to 3 feet apart, dropping the nuts 8 to 10 ins. apart, one in a hill. Cover 1 or 2 inches deep. Cultivate three or four times with a cultivator, so as to loosen the earth and keep down weeds, and at the last working, with a shallow turn-plow throw the dirt to the nuts.

**Price**— $\frac{1}{4}$  lb. 15c;  $\frac{1}{2}$  lb. 20c; 1 lb. 30c. Special price on large quantity.

## Pepper

(German—Pfeffer. French—Poivre)

One ounce will produce 1,000 plants.

**Culture**—Sow in hotbeds in March or April, or on a warm, sheltered border in May, and when the season is favorable transplant in rows two feet apart and 18 inches in row, in good, rich ground.

**M. & S. Everbearing Sweet Pepper**—Early, large productive and of finest quality. The flesh is so thick and the meat so tender, that it can be fried like meat; it is so sweet that it may be eaten like an apple. Pkt. 10c and 25c;  $\frac{1}{2}$  oz. 35c; 1 oz. 65c;  $\frac{1}{4}$  lb. \$2.25; 1 lb. \$8.00.

**Large Bell or Bull Nose**—Large, early variety, hot flavor, thick and fleshy. Pkt. 10c;  $\frac{1}{2}$  oz. 20c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00.

**Chinese Giant**—This is a real monster pepper, perfectly sweet, the fruit is green turning to bright scarlet, matures very late, a very shy seeder. Fine for stuffed mangoes. Pkt. 10c; oz. 50c;  $\frac{1}{4}$  lb. \$1.75; 1 lb. \$6.50.

**Perfection Pimento Pepper**—Very fleshy and sweet. Pkt. 10c;  $\frac{1}{2}$  oz. 30c; 1 oz. 50c.

**Large Sweet Spanish**—Pkt. 10c;  $\frac{1}{2}$  oz. 20c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00

**Long Red Cayenne**—Long, slim, and very pungent. Pkt. 10c;  $\frac{1}{2}$  oz. 20c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00.

**Mammoth Ruby King**—Good for Mangoes or pickling, very sweet. Large, quite productive. Pkt. 10c;  $\frac{1}{2}$  oz. 20c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00.

**Small Chili**—Small, conical pods. Very hot. Pkt. 10c;  $\frac{1}{2}$  oz. 30c; oz. 50c.

**Red Cherry**—A small round pepper, very hot. Pkt. 10c;  $\frac{1}{2}$  oz. 40c; oz. 75c.

**Neapolitan**—Grows a long shape and somewhat narrow; it stands upright on the bushes. Sweet, bright red; and very early. Pkt. 10c;  $\frac{1}{2}$  oz. 30c; oz. 50c.

**Golden Dawn**—A large yellow variety, very sweet. Pkt. 10c;  $\frac{1}{2}$  oz. 35c; oz. 60c.

**CALIFORNIA WONDER PEPPER**—Introduced in 1925. This pepper while similar both in size and shape to the Chinese Giant, is a much heavier and thicker meaty pepper, the meat being about three times as thick as the Chinese Giant. The flavor is sweet, excellent and the keeping quality could not be better. It will outkeep a Chinese Giant Pepper by many days. A medium size pepper will average  $\frac{1}{2}$  lb. or better in weight when ready for marketing. It is an excellent shipper, uniform in shape and size. Pkt. 25c;  $\frac{1}{2}$  oz. 75c; 1 oz. \$1.25; 2 ozs. \$2.25;  $\frac{1}{4}$  lb. \$4.00; 1 lb. \$15.00.

PEPPER PLANTS LISTED ON PAGE 5.



## Topepo

The World's Newest Vegetable

In the Topepo we offer a new vegetable of exquisite flavor combining the delicious qualities of the pepper and the tomato, it is not an improvement on some other strain. It is a new and distinct creation.

The new vegetable appeals to the eye in its gorgeous colorings of vivid red, deeper than the tomato, or golden yellow, striped with dark green, it makes a very handsome table decoration; at first glance it is taken for an artificial waxen tomato.

A very important feature of the Topepo is its keeping quality, it has kept in ordinary room temperature for thirty days without spoiling.

You will find the Topepo not only an interesting novelty, but a fine addition to your menu if you have a home garden, and an attractive and profitable vegetable if you grow vegetables for the market. Pkt. 25c, 50c and \$1.00.

## Parsley

(German—Petersilie. French—Parsil)

One ounce to 150 feet of drill.

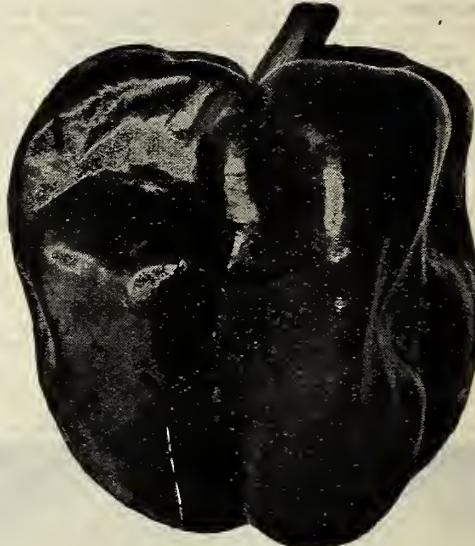
**Culture**—Parsley requires rich, mellow soil. The seed is even slower than Parship in germinating, and should be sown as early as possible in the Spring, in drills one foot apart, and when the plants are well up thin to one foot in the row. When the plants are about three inches high, cut off the leaves, the plant will start a new growth.

**M. & S. GREEN CURLLED BEAUTY PARSLEY**—Very handsome, dark green, beautifully curled. Dwarf habit, hardy and productive; very slow going to seed; it can be cut the year around. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.

**Champion Moss Curled**—A distinct variety of unequalled merit, beautifully crimped and curled. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

**Green Mountain Parsley**—Beautifully crimped and curled; perfectly hardy and vigorous grower. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

**Hamburg, or Rooted**—Edible roots. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.



Gentlemen—It gives me a great pleasure to say that the Juliano spinach seed stood more hot dry weather than any spinach I have sown in my life,

Yours truly,

HERMAN LEMOYNE.

Mr. Milwee, of Chase, Maryland, says: "Your Bonnie Best Tomato is the finest ever. It has given me the largest crop of true to name tomatoes I have ever had. Farmers stop and buy tomatoes to save seed from."

WE DO APPRECIATE HEARING FROM PLEASED CUSTOMERS.

**SEMESAN PRODUCES FINEST VEGETABLES**—Plant and seed diseases are responsible for poor yields and the unblemished quality of many popular vegetables. The best means of eliminating such wastes, consists of preventing the cause at its source by the disinfection of vegetable seeds with Du Pont Semesan.

# M. & S. SUPERIOR HAND PICKED PEAS

(German—Erbsen. French—Pois)

## Prices on Larger Quantities on Application.

Sow one quart of seed to 100 feet of row; and one-half to two bushels to the acre in drills.

If by Parcel Post, include postage, according to zone.

Weight— $\frac{1}{2}$  pt. and pt. 1 lb.; qt. 2 lbs.;  $\frac{1}{2}$  peck 7½ lbs.; 1 peck 15 lbs.; (1 bushel 60 lbs. unless otherwise noted).

Prices on all Pea Seeds are subject to market changes.

Packets of all varieties of Peas, 10c.

**Culture**—Peas succeed best in light, dry, loamy soil. Early and dwarf sorts require richer soil than the late varieties. If manure is used, let it be old and well-rotted, or there will be a rank growth of vines with few pods. Sow the early, smooth, round sorts as early in the Spring as the ground can be worked. Seeds of wrinkled varieties are more liable to rot if the ground is cold, and must be planted later. Sow in single rows, dwarf sorts three feet apart and tall sorts four feet apart, or in double rows, six to eight inches apart, one inch apart in the drill, and not less than four inches deep, for late sorts five to six inches deep. Deep planting prevents mildew.

## Extra Early Varieties

(Weight 60 lbs. per bushel.)

**Early Bird**—As early as Alaska and First and Best. As large as Thos. Laxton or Gradus. Dwarf, vigorous vines about 2 feet high, covered with immense well-filled pods. Perfectly hardy. Can be planted as early as any variety. Pkt. 10c;  $\frac{1}{2}$  pt. 20c; pt. 30c; qt. 50c;  $\frac{1}{2}$  peck \$1.75; peck \$3.25; bus. \$11.00.

**Acquisition**—The best of the smooth, blue seeded, Amerer or Claudit type, and is certainly an acquisition for the market gardener as it will stand planting as early as Alaska. Height 2½ feet. Foliage and vine strong and sturdy and deep green in color; pods deep green, 4 in. long, broad, saddle-backed, slightly curved and pointed, containing 7 to 8 large, medium green peas. Price same as above. Supply limited.

**Extra Early Alaska**—Popular among market gardeners for an early crop. The pods are medium size, dark green in color and ripen almost at one time. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; pt. 25c; qt. 40c;  $\frac{1}{2}$  peck \$1.25; peck \$2.00; bus. \$7.50.

**Pedigree First and Best**—An excellent strain of first early peas; very popular and largely planted throughout trucking sections. Height two to two and one-half feet. Price same as above.

**Prolific Early Market**—This is one of the largest podded and most productive of all smooth-seeded extra early peas. Vines grow about 30 inches in height, and can all be gathered in two pickings. The pods are remarkably well filled, and the peas sweet and fine flavored. A most satisfactory prolific early sort, both for the market gardener and the home gardener. Price same as above.

**Long Podded Alaska**—Vines of this variety grow about three feet high and are heavy bearers. The pods, three inches long, mature shortly after Alaska and are well filled with sweet, tender peas. Price same as above.



Early Bird Peas.

## Extra Early Wrinkled Varieties (Weight 56 lbs. per bushel.)

**M. & S. WORLD'S RECORD**—Medium vines of dark green color and heavy foliage, bearing large handsome well-filled pods measuring sometimes 4 ins. and longer, filled with from 8 to 12 tender, luscious peas. Pkt. 10c;  $\frac{1}{2}$  pt. 20c; pt. 30c; qt. 50c;  $\frac{1}{2}$  peck \$1.50; peck \$2.75; bus. \$10.00.

**Laxtonian**—A dwarf pea with large handsome pods. It is slightly earlier than Gradus, maturing about the same time as Thomas Laxton. Vines medium dark and medium heavy of foliage. Pods 3½ to 4 inches long, slightly curved. Will bear more abundantly at top of vines, making it easy to pick, very heavy yielder. Price same as above.

**Thomas Laxton**—An exceptionally fine variety, growing three feet in height and yielding large podded peas, four to five inches in length, of the finest flavor, very early. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; pt. 25c; qt. 45c;  $\frac{1}{2}$  peck \$1.40; peck \$2.50; bus. \$9.00.

**Gradus, or Prosperity**—One of the most popular wrinkled sorts. Even though it matures a short time later than the extra earlies, the pods, fully as long as those of the well-known Telephone, contain very large peas that are unexcelled for sweetness. Price same as above.

## Medium Early Wrinkled Varieties (Weight 56 lbs. per bushel.)

**M. & S. LITTLE MARVEL PEA**—An extremely valuable variety, especially suited to small home gardens, and also a splendid variety for early market gardening. It matures very early and produces large crops. The vines grow about 15 to 18 inches in height. The pods are dark green, fair sized, produced in pairs, and are closely filled with 7 to 8 peas of extra fine flavor. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; pt. 25c; qt. 45c;  $\frac{1}{2}$  peck \$1.50; peck \$2.75; bus. \$10.00.

**Nott's Excelsior**—Resembling Little Marvel in habit and growth. Price same as above.

**Daisy, or Dwarf Telephone**—The striking features of the Daisy pea are its large pods and the way in which they are heaped up in ridges on the short, strong vines. The pods are well filled with large peas of most excellent quality. The vines are 16 to 18 inches high, and, being strong and thrifty, require no support, making it an ideal variety for use where brush or stakes are not available. This pea is desirable on account of the fine appearance of the pods. Price same as above.

**Pot Latch**—Resembling Daisy, or Dwarf Telephone in habit and growth. Price same as above.

## Medium and Late Varieties

(Weight 56 lbs. per bushel except in Sugar Marrow).

**Telephone**—For general planting this tall-growing variety is undoubtedly the most popular among market gardeners. The pods 4 to 4½ inches long, are light green in color and filled with large, sweet, tender peas. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; pt. 25c; qt. 45c;  $\frac{1}{2}$  pk. \$1.40; pk. \$2.50; bus. \$9.00.

**Champion of England**—A standard pea; vines grow 4½ feet high and bear medium-sized pods of peas of good quality. Price same as above.

**Improved Sugar Marrow Peas**—We have the genuine stock of this variety. This pea is the kind planted principally by the larger growers around Baltimore for late crop. It is a strong grower and produces an abundance of large, well-filled pods. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; pt. 25c; qt. 40c;  $\frac{1}{2}$  peck \$1.25; peck \$2.25; bus. \$8.50.

**Dwarf Melting Sugar**—The pods as well as the peas of this variety are edible and both very sweet. Pkt. 10c;  $\frac{1}{2}$  pt. 20c; 1 pt. 35c; 1 qt. 60c.

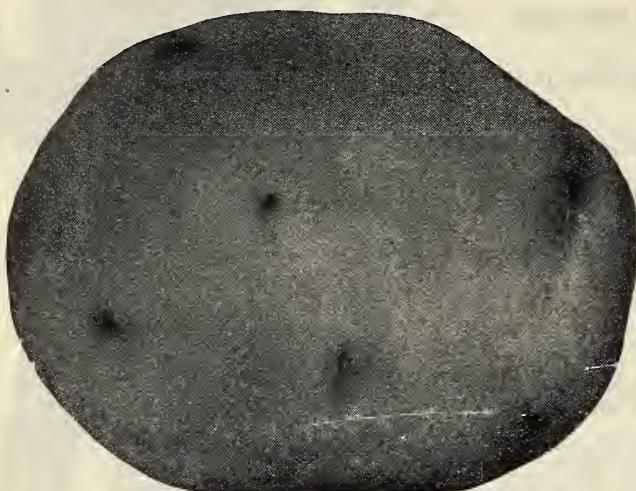


M. & S. World's Record Peas.

# POTATOES

Subject to Market Fluctuations.  
Prices on large quantities furnished  
on application.

(German—Kartoffeln. French—Pomme de Terre)



Irish Cobbler Potato

Present price of all kinds: Peck \$1.00; bushel \$3.50.

Sack of 165 lbs. \$8.50. If wanted by parcel post add at the rate of 15 lbs. for a peck and 60 lbs. for a bushel.

Prices on quantity of Potatoes furnished on application.

Potato prices subject to market fluctuation.

**Culture**—Planting may commence as early in the Spring as the ground can be worked. Place one piece every twelve inches in rows two and one-half feet apart, covering about four inches. When cutting the seed allow one eye to each piece.

Ten bushels cut tubers will plant one acre.

**Red Bliss**—Very early, thin, red skin, round, white flesh.

**Irish Cobbler**—This is an early potato of exceptional merit, which has given our trade entire satisfaction. The shape is round. Flesh is white and the eyes strong and deeply set.

**Houlton Early Rose**—The Houlton strain of the old favorite Early Rose has been the most popular on our market in recent years.

**Crown Jewel**—A well-known and deservedly popular early variety. Very productive and an excellent cooker. Skin white and smooth, eyes shallow, but strong.

**M. & S. FILL BASKET**—On account of the large yields that have been reported on this potato, our sales on it have increased wonderfully. It is of handsome round shape and most desirable for the best trade. It is a vigorous grower, ripens uniformly, is a good keeper, medium late. The vines are always very heavy, the seed being especially vigorous, and tubers always good size, where soil is well tilled. Very smooth and a good cooker.

**Improved Green Mountain, Prosperity and Dakota Reds** (all three late sorts). Prices furnished on application.

**Choice Seed Sweet Potatoes, Leading Varieties**—Prices on application. Sweet Potato Plants. SEE PAGE 5.

## SEMESAN BEL

America's Premier Potato Disinfectant

SEMESAN BEL acts as an antiseptic that either kills or retards the development of disease producing bacteria and fungi, as well as other similar parasitic organisms that may not produce disease results but which feed on the seed pieces, causing handicapped sprouting and weak or stunted growth of plants. 1 lb. \$1.75 will treat 10 bus.; 5 lbs. \$8.00.

## Reference:

I am sending you a sample of Irish Cobbler Potatoes, which were raised from M. & S. Seeds, they produced 300 Bus. to the acre, all such as I am sending you.

JOHN MEHL, Gardener,  
Foxcroft School, Middleburg, Va.

WE DO APPRECIATE HEARING FROM PLEASED  
CUSTOMERS.

# Pumpkins

(German—Kurbiss. French—Potiron)

We pay postage on pkts., ozs.,  $\frac{1}{4}$  lbs. and 1 lbs.  
One ounce for fifteen hills; three to four pounds plant an acre.

**Culture**—Sow in the month of May. Make hills the same as you do for squashes, but do not make the hills too close.



King of the Mammoths, or Pot Iron Pumpkin.

**M. & S. YANKEE PIE PUMPKIN**—The best Pie Pumpkin that grows. Strong vines bearing an abundance of good keeping, large handsome pear shaped, golden yellow pumpkin, which are so sweet that they require very little sugar and ripen early. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00.

**Cushaw, or Winter Crookneck**—An old standard variety, which is very popular. It is also used for feeding stock. Long yellow crookneck, fine grained yellow flesh, very solid. Price same as above.

**Cushaw Striped**—Same as above, but it is green and white striped. Price, same as above.

**King of the Mammoths, or Pot Iron**—An immense variety, which always wins prize offered for the largest and best pumpkins, grown to weigh over 200 pounds. Flesh of a rich, golden yellow; a splendid keeper. Price same as above.

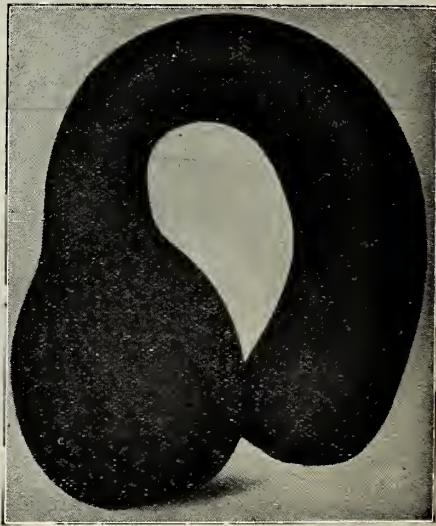
**Japanese Pie**—Flesh very thick, rich salmon color, fine grain, dry and sweet. Price same as above.

**Tennessee Sweet Potato**—Excellent for pies; pear-shaped, medium size, flesh and skin creamy white, fine grained, sweet, a first rate keeper. Price same as above.

**Sugar, or New England Pie**—For making pies this variety cannot be excelled. The Pumpkins are small but very sweet, fine grained and of the best quality. Price same as above.

**Winter Luxury Pumpkin**—A very good keeper and a splendid pie Pumpkin; shape round, skin finely netted, and beautiful russet - yellow color; flesh thick and of fine flavor. Price same as above.

**Common Yellow, or Connecticut Field**—Very productive; for feeding stock. same as above. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 60c.



Cushaw or Winter Crookneck.

Gentlemen:—I find your Juliana Spinach a great improvement over all other varieties which I have grown in the past.

Yours very truly, JOHN H. GRIFFITH, Manager.

Gentlemen:—It gives me great pleasure to say that our gardens turned out wonderful this season, even though we had such unfavorable weather. I was pleased with everything grown from your seeds.

Sincerely yours,  
MR. MOORE, Notre Dame College.



M. & S. Strain  
Scarlet Globe.

We do appreciate hearing from satisfied customers.

We have so many favorable comments on our M. & S. strain Scarlet Globe Radish that lack of space prevents us from listing same.

**Long White Vienna or Lady Finger**—Has slender pure white roots which are smooth and average about 6 to 7 inches in size when matured. They are quite early and of excellent quality. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 75c.

**Icicle**—A beautiful long, slender radish, of recent introduction. Beautiful pearl-white color, firm and solid, slow to get woody. A good seller. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 75c.

**White Strasburg**—Handsome, oblong, tapering shape, both skin and flesh pure white; flesh firm, brittle, tender and possessing the most desirable character of retaining its crispness, even when the roots are old and large. Excellent for Summer use, as it withstands severe heat and grows very quickly. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 75c.

**New Glass, or Cincinnati Market**—A long Scarlet Radish with a distinctive white tip. A suitable radish for deep mellow soil. A fine radish for the home garden as well as an attractive one for the market stall. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 75c.

**White Turnip (Short Top)**—Of quick growth; roots round, pure white, tails very thin; leaves short, flavor excellent. Fine for forcing and open ground. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 75c.

**White-Tipped Scarlet Globe**—A good forcing variety. Small size and very attractive, being a handsome, bright scarlet, with white tip. Very early and good quality. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 75c.

**Ruby King, Extra Early**—Of brilliant red color, fine for forcing or open ground; roots are tender; juicy and mild. One of the best round red Radishes that grows. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 75c.

**White ICICLE RADISH**

The best soil improver you can use is manure. Use plenty of it. We can sell you a whole wagon load in a 100 lb. bag of our High Grade Sheep or Cattie Manure, at a surprisingly low figure.

**M. & S. EARLY CARDINAL RADISH**—These are the best little crisp red radishes, which come so early in the season; they grow globular in shape and are of the most brilliant cardinal red color; are tender and crisp; will stand the heat and are fine for forcing. The most desirable for home garden and market gardeners' use. Pkt. 10c; oz. 15c; ¼ lb. 30c; 1b. 90c.

## M. & S. SELECTED RADISH SEED

(German—Radies. French—Radis)

We pay postage on pts., ozs., ¼ lbs. and 1 lbs.  
One ounce for fifty-foot drill; ten pounds in drills to  
one acre.

**Culture**—To be tender and crisp Radishes must be grown quickly, and this requires rich soil and plenty of moisture. Commencing with the first mild spell in the Spring, sow at intervals of ten days. May also be sown as a catch crop between rows of beets, lettuce, onions, etc. Radishes can be forced in hotbeds, but must have plenty of ventilation and moisture.

### Extra Early Varieties

**Scarlet Globe Early—M. & S. Strain**—Highly recommended for truckers. This variety can be used for forcing and is recommended for early outdoor planting. It is small, round, red and of excellent flavor; its rich, crisp, tender flesh makes it very popular. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 75c; 10 lbs. \$7.00; 25 lbs. \$15.00.

**French Breakfast, Early**—Oblong shape, rapid grower, very mild and tender; of a beautiful scarlet color, tipped with white. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 75c.

**Early Long Scarlet Short Top**—The principal outdoor quick-growing variety, also very good for forcing. Grown in light, rich soil, its average length is about eight inches; grows half out of the ground, straight, uniform in color, brittle, crisp, small tops, bright scarlet. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 75c.



White Strasburg.

**Crimson Giant**—Like above but much larger. Very desirable. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 75c.

**Strawberry**—The exceptional merit of this radish is proved by its popularity increasing every year with successful market gardeners. This radish is a table dainty, crisp, tender and sweet; it is turnip shaped, bright scarlet color, and is a high class strain for out-door planting. It combines beautiful appearance with finest radish quality—appealing to the eye and palate. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 75c.

### Summer Varieties

**Large White Stuttgart**—Very large, top-shaped, flesh and skin white, fine quality, firm and brittle, seldom pithy. Can be stored for winter. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 75c.

**Large White Summer Turnip**—Round, smooth and very white; crisp and tender. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 75c.

**Golden Globe**—A favorite summer radish. Golden-brown skin, perfect globe shape, mild and brittle, slow to seed. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 75c.

**Improved Chartier**—Somewhat resembling brightest scarlet—early radish. It is double the size and later; long scarlet and tipped with white. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 75c.

### Winter Varieties

**Long Black Spanish**—Large radish, with black skin and white firm flesh, grows six to eight inches long. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 90c.

**Round Black Spanish**—Like the above, except that it is round shape. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 90c.

**Long White Spanish**—Like the Long Black Spanish, only different in color. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 90c.

**Round White Spanish**—Like the Round Black, but white, like all the Spanish radishes, which are fine keepers, mild flavor and brittle. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 90c.

**China Rose, or Scarlet China**—Bright rose-colored, stump-rooted, of excellent quality. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1b. 90c.

**White Chinese, or New Celestial**—Large stump-rooted, white skin and flesh, mild in flavor, brittle and never woody. For late planting and a splendid keeper. Market gardeners will find this a good variety that sells readily. Pkt. 10c; oz. 15c; ¼ lb. 30c; 1b. 90c.

**Sakurajima (Mammoth Japan)**—The largest sort in cultivation. Sow early in rich soil. In Japan it grows as much as twenty-one inches long and forty-three inches in circumference. Thin well to allow of proper development. Pkt. 10c; oz. 25c; ¼ lb. 75c.

**Merima**—Also a Japanese radish. Similar to Sakurajima, but round instead of long. Very tender and sweet. Pkt. 10c; oz. 25c; ¼ lb. 75c.

**HORSERADISH (German—Meerrettig; French—Raifort)**—SEE PAGE 5.

WE PAY POSTAGE ON PKTS., OZS.,  $\frac{1}{4}$  LBS., AND 1 LBS.

## Rhubarb

(German—Rhababer. French—Rhubarbe)

**Culture**—Sow seed in a cold-frame, in a fine, rich, sandy loam, about the first of March, in drills four inches apart. Keep the frames covered during nights and cold days, so that the soil will not freeze, and in six or eight weeks the plants will be large enough to set in the open ground. Transplant to a rich soil, and set in rows twelve inches apart and twelve inches in the row. The following Spring transplant to a permanent location, setting four or five feet apart each way. In good soil Rhubarb is ready to use the second year from seed.

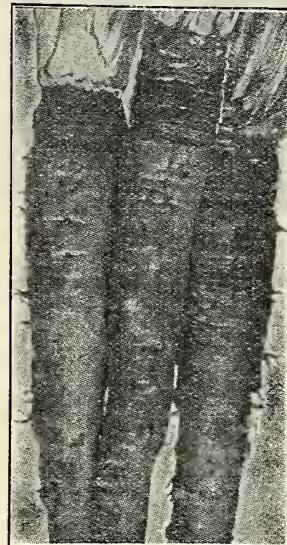
If our two-year-old roots are used, a crop may be had the same season, which is much better than sowing seed where only a few plants for family use are needed. In the Fall the bed should have a thick dressing of coarse manure, to be spaded under in Spring.

**Myatts Victoria**—The leading variety. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c.

ROOTS—SEE PAGE 5.



## Salsify, or Oyster Plant



Mammoth Sandwich Island Salsify

(German—Haferwurzel. French—Salsif)

One ounce to seventy feet of drill; about eight pounds to the acre.

**Culture**—Sow as early as the ground can be worked in the Spring, in drills twelve inches apart, one inch deep, and thin out to six inches in the row. Keep them free from weeds. Cultivate the same as for Carrots and Parsnips. A part of the crop may be left in the ground till Spring, when it will be found fresh and plump. The roots are cut into pieces one-half inch long, boiled until tender, and then served with drawn butter, in which way it is a delicious vegetable. They are also mashed and baked like Parsnips, and have a sweet and agreeable flavor like that of the oyster.

**Mammoth Sandwich Island**—This is an improved type and the largest and most profitable salsify now in cultivation. It is white in color, and a satisfactory sort in every way; invaluable to market gardeners and truckers.

Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$2.

## M. & S. Swiss Chard, Delmonico

This is the finest swiss chard that grows, making large handsome, finely crimped light green leaves, which are tender and have a delicious flavor, the ribs are edible and not unlike asparagus. Absolutely, the best for home gardens. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. \$1.00.

**Swiss Chard, or Spinach Beet, Giant Lucullus**—The leaves of Swiss Chard are used as greens, cooked in the same manner as spinach, and the large ribs are prepared like asparagus, in which manner they are delicious. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.



M. &amp; S. Swiss Chard, Delmonico

## Vegetable Marrow

**Italian (Cocozelle di Napoli)**—Grows about 20 inches long, with a diameter of 3 or 4 inches. Skin smooth, dark green, marbled yellow or pale green.

**Cosazza**—Similar to the above. Great favorite with the Italians. Price of both Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c.



## Sorrel, or Sourgrass

(German—Sauerampfer. French—Oseille)

**Culture**—Sow in Spring in drills 18 inches apart, in a rich soil and keep the flower-stems cut off as they appear. It remains in the ground year after year, and only needs to be taken up and divided once in four or five years. To be cut and cooked precisely like Spinach; or it is excellent cooked with it, one-third Sorrel to two-thirds Spinach. It is also used for soups. Very nice to be eaten after it has become cool. Inasmuch as the hot sun tends to increase its acidity, a northern exposure is preferable.

**Large French**—Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

## Squash

(German—Gemuse Kürbis. French—Courge)

Bush sorts, one ounce for fifty hills; five to six pounds to acre; running varieties three to four pounds in hills for an acre.

**Culture**

Squashes should be planted in a warm, light, rich soil after the weather has become settled and warm, about the middle of May or June. Plant in well-manured hills, in the same manner as Cucumbers and Melons—the Bush Varieties three to four feet apart each way, and the running kinds from six to eight feet. Eight to ten seeds should be sown in each hill, thinning out after they have attained their rough leaves and danger from bugs is over, leaving three to four of the strongest plants per hill.

**M. & S. PERFECTION BUSH SQUASH**—This is the finest scalloped white squash that grows, obtaining large size but stays tender as butter for a long time. The best for home gardens and market gardeners. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 45c; 1 lb. \$1.25.

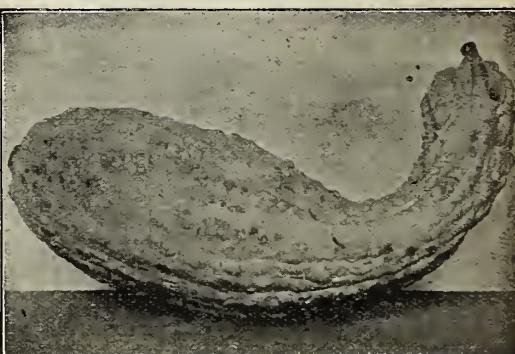
**Early Mammoth White Bush Squash**—An excellent strain. Early prolific, much larger than the old White Bush. Splendid for market, best for shippers. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00.

**Summer Crookneck, Bush Variety**—About one foot long, with crooked neck, bright yellow, warty, shell hard when ripe. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00.

**Hubbard**—An excellent keeper; splendid quality. Vines of strong running growth. Large olive-shaped fruits with dark-green skin; very rich flesh. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

**Golden Hubbard**—Like the above, but of a beautiful orange-red color, except for a bit of olive-green on blossom end. Flesh deep orange, dry, fine grained and richly flavored. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

**Boston Marrow**—This is a large-fruited hard-shell sort, highly esteemed for Winter use, having bright orange skin and deep orange flesh. Very fine, extensively used for pumpkin pies. Fine, strong running growth. Very productive, oval shape. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00.



Summer Crookneck Squash.

**Blue Hubbard**—A new variety and a selection from the original Hubbard. Fruit gray blue color; grows large; remarkably good keeper, and excellent quality. Pkt. 10c; 20c per oz.;  $\frac{1}{4}$  lb. 50c; \$1.75 per lb.

## Turnip

(German—Rübe. French—Navet)

We pay postage on pkts., ozs.,  $\frac{1}{4}$  lbs. and 1 lbs.

One packet for 100 feet; two pounds to the acre.

**Culture**—For early use sow as soon as the ground opens in Spring, drills from 12 to 15 inches apart; thin out to six or nine inches in the rows. For a succession, continue to sow in July and August. The Ruta Bagas are grown for feeding stock, and are also excellent for the table. Take up the roots in November or before severe frosts; cut off the tops within an inch of the crown, store in a cool cellar or pit, or pile up in a conical form, out of doors, in dry ground; cover carefully with long straw and finish by earthing up, covering them with about 12 or 15 inches of earth, leaving a trench around the heap to carry off the water. Put away in this manner they will be found in good condition in the Spring.

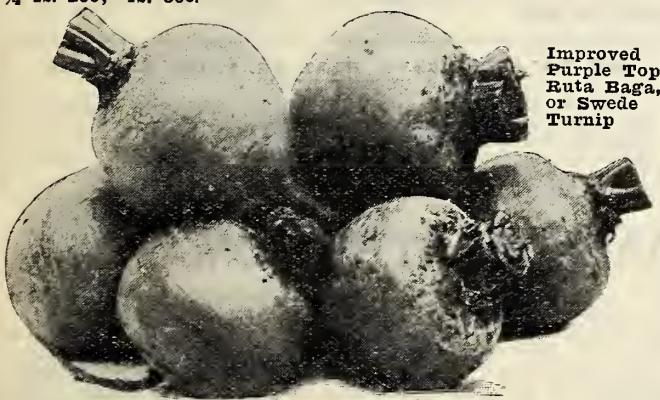


M. & S. Early Champion Turnip.

**M. & S. EARLY CHAMPION TURNIP**—This is the best Turnip for home gardens and market gardeners to plant. It is large perfect globe shape, white as snow with a beautiful distinct red shoulder (tops are not over large), stays tender and sweet a long time. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.

**Red, or Purple Top White Globe**—A variety of decided merit, and the most popular in our markets. Globular-shape, very handsome and of superior quality. Is a heavy producer, early, and of rapid growth, and an excellent keeper. Besides being a first-class table turnip, it is also very good for stock. Pkt. 10c; 1 oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 50c.

**Extra Early Purple Top Strap Leaved**—Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 50c.



**Purple Top Yellow Aberdeen**—Medium size, round, pale-yellow, tender and sugary. Is hardy and productive and keeps well. Closely approaches Ruta Baga in hardness and firmness of texture. This is an old esteemed variety for stock. Pkt. 10c; 1 oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 50c.

**Improved Purple Top Ruta Baga, or Swede**—The leading variety of Ruta Baga and is grown principally for stock, although it is very often used for table. Hardy, productive, flesh yellow, solid, sweet, fine grained and of good flavor. Ruta Bagas should be sown about one month earlier than other turnips. Pkt. 10c; 1 oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 50c.

Gentlemen—I gives me great pleasure to say that the Juliania Spinach seed stood more hot dry weather than anything I have sown in my life.  
Yours truly,  
HERMAN LeMOYNE.

Gentlemen—Your Juliania Spinach is truly wonderful. It is all you claim for it and then some.

JOHN MEHL, Gardener,  
Foxcroft School, Middleburg, Va.

**White Egg**—A quick-growing, egg-shaped variety. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

**Yellow, or Amber Globe**—Excellent for table use or stock. Fine quality, keeps well. Pkt. 10c; 1 oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.

**Pomeranian White Globe**—Free growing and rough-leaved. Pure white. Useful for table and stock. Large and productive. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

**Cow Horn**—A long, white, carrot-shaped turnip, which grows half out of the ground. Mostly used for feeding stock, but makes a fine table sort. Has lately been brought to prominence for green manuring in connection with rape. Pkt. 10c; 1 oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 50c.

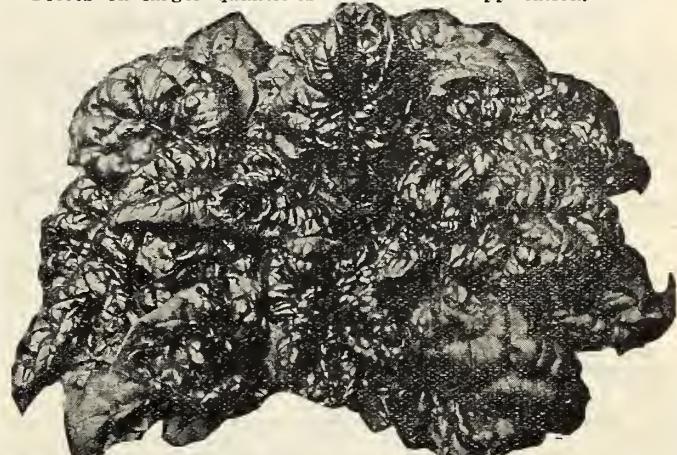
**Seven Top**—Grown exclusively for its tops, and when properly prepared and cooked, make a fine dish. Withstands our winter without any protection. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 60c.

**Tennoji Turnip**—A Japanese variety of exceptional merit. Flat, snow white and of immense size, but very fine flavor. Seed very scarce. Pkt. 10c; oz. 25c.

## Spinach

(German—Spinat. French—Epinard)

One packet will sow fifty feet of drill; 15 to 20 lbs. to an acre. Prices on larger quantities furnished on application.



Bloomsdale Savoy Leaved Spinach.

**Culture**—Sow in early Spring, in drills a foot apart, every two weeks for a succession, and as it grows, thin out for use. For Fall use, sow in August, and for Winter crop in September. Cover that which is left over winter with straw or leaves after the weather becomes quite cold. Keep clear of weeds. Sow the seeds of New Zealand in hills two feet apart each way, three or four seeds in a hill.

**Bloomsdale Savoy Leaved**—The popular Fall Spinach so largely grown for market. Grows upright, the leaves being crumpled, dark green and very thick. Pkt. 10c;  $\frac{1}{4}$  lb. 15c; 1 lb. 35c; 5 lbs. \$1.25; 100 lbs. \$15.00. Reselected Savoy for trucking trade—100 lbs. \$17.50.

**New Long Standing Bloomsdale**—Has all the good points of the above, in addition, it will withstand the summer heat and goes to seed very slow. Pkt. 10c;  $\frac{1}{4}$  lb. 20c; 1 lb. 50c; 5 lbs. \$2.00; 100 lbs. \$20.00.

**Juliana** (the latest introduction)—Very long standing, heat resisting, handsome dark-green. Very thick and curled leaves. Absolutely without male plants which is the cause of the long-standing quality. Pkt. 10c;  $\frac{1}{4}$  lb. 20c; 1 lb. 50c; 5 lbs. \$2.00; 100 lbs. \$20.00.

**Victoria**—A favorite for early Summer. It is one of the darkest in color. Pkt. 10c;  $\frac{1}{4}$  lb. 15c; 1 lb. 35c; 5 lbs. \$1.25.

**Long Season**—Leaves are decidedly dark green in color, very broad, thick and fleshy. It resists the Summer heat. Pkt. 10c;  $\frac{1}{4}$  lb. 15c; 1 lb. 35c; 5 lbs. \$1.25.

**Triumph Spinach**—This excellent new Spinach is nearly double the size of the Victoria and has all its good quality. Very profitable for market gardeners and shippers. Pkt. 10c;  $\frac{1}{4}$  lb. 15c; 1 lb. 35c; 5 lbs. \$1.25.

**King of Denmark**—The leaves are large, rounded, somewhat blistered, and deep green. The plants grow vigorously and are ready to use as soon as any kind; while at the same time they remain a long time in good condition after other kinds have run to seed. Pkt. 10c;  $\frac{1}{4}$  lb. 15c; 1 lb. 35c; 5 lbs. \$1.25.

**New Zealand**—Of delightful flavor and practically ever-bearing. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c. 1 lb. 75c.

## Tobacco Seed

Connecticut and Pennsylvania Seed Leaf—Pkts. 5c and 10c; oz. 25c.

Havana Seed Leaf—Pkts. 10c; oz. 35c.

Maryland Tobacco—Pkts. 10c; oz. 25c.

Gentlemen—I find your Juliania Spinach a great improvement over all other varieties which I have grown in the past.

Yours very truly, JOHN H. GRIFFITH, Manager.

We pay postage on pkts., ozs.,  $\frac{1}{4}$  lbs. and 1 lbs.

## M. & S. "SURE CROPPING" TOMATOES

(German—Liebesapfel. French—Tomate)

One ounce for 1, 500 plants; quarter pound (to transplant) an acre.

**Culture**—This delicious vegetable is one of the most important of all garden products. The seed should be sown in a hotbed about the first week in March or latter part of February, in drills five inches apart, and half an inch deep. When the plants are about two inches high they should be set into small pots, allowing a single plant to a pot. About the first of May the plants may be set out in the open ground in hills three feet or four feet apart each way. (Sufficient plants for a small garden may be started by sowing a few seeds in a shallow box or flower pot, and placing it in a sunny window of the room or kitchen.) Cultivate thoroughly as long as the vines will permit, but the last two or three workings of the soil should be very shallow (surface cultivation), or the crop may be badly injured, especially if the cultivator is run too near the young plants.

### New Introduction—Marglobe

Tested repeatedly and approved by the United States Department of Agriculture. Is sure to be planted extensively before long. This is what the Department says about it. "Very productive, second early variety. Fruits large, smooth, meaty, red, globular. Highly resistant to wilt and somewhat resistant to blights. Pkts. 15c and 25c; 1 oz. 50c;  $\frac{1}{4}$  lb. \$1.60; 1 lb. \$6.00.

A great many of our customers claim the "Marglobe" the best tomato they ever planted.

### EARLY VARIETIES M. & S. Early Wonder

This is the sixth year that we are offering this wonderful extra early Tomato, after several years of careful selection. The fruits are large for so early a variety, round or slightly flattened, deep scarlet red color, smooth, free from cracks and of fine quality. It produces ripe fruit as early as Earliana and continues to yield marketable fruit a longer period than the other first early varieties. The vines are vigorous and very productive. We consider this a valuable addition to the list of early tomatoes for the market or home garden. Pkts. 15c and 25c; oz. 60c;  $\frac{1}{4}$  lb. \$2.00; 1 lb. \$7.50.

**Extra Early I. X. L.**—Combines extreme earliness, immense size and prolificness. Fruit red, ripening mostly all at one time. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Sparks Earliana**—Particularly desirable for shipping and for earliest market. The fruits are smooth, round, of red color, making desirable and salable fruits. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Chalks Jewel**—A tomato of fine quality. Second early, round, smooth red fruit of excellent flavor. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. 90c; 1 lb. \$3.00.

**M. & S. Incomparable**—Another fine second early tomato, round smooth red fruit. Pkt. 10c; oz. 40c;  $\frac{1}{4}$  lb. \$1.25; 1 lb. \$4.00.

Marglobe Tomato.



**Bonnie Best**—The finest of the second early tomatoes. About a week later than the Earliana, but far superior in quality. Fine red color, fine quality, hardy and productive. Excellent flavor. A most profitable variety for early and main crop. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. 90c; 1 lb. \$3.00.

**John Baer**—Is a good, all around second early tomato, the fruit being smooth, ripening clear to the stem and of a good rich red color. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. 90c; 1 lb. \$3.00.

**June Pink**—For gardeners who have a market for a nearly purplish pink fruit (which is produced in clusters). This is the variety to plant. True strain seed. Pkt. 10c; oz. 40c;  $\frac{1}{4}$  lb. \$1.25; 1 lb. \$4.00.

### WE DO APPRECIATE HEARING FROM PLEASED CUSTOMERS!

August Kramer, Pasadena, Md., A. A. County, tells us about the great success he has had with our Early Wonder Tomato; he says although the season was late, I had the finest and smoothest tomatoes in Hollins Market by July 4 and got a wonderful price for them.

## M. & S. MAIN CROP AND SMALL FRUITED TOMATOES

**M. & S. BIG CHIEF**—A grand new main crop tomato of the very highest quality. It produces an abundance of large handsome red fruit, which ripens clean to the stem and will bear heavily from the early part of July until frost. It is a very shy seeder. The meat is deliciously juicy and free from acid. It is rare to see an ill-shaped fruit on a M. & S. **BIG CHIEF VINE**. We have tested this valuable new variety very carefully and have always been more than satisfied with the results. Order quick, as the seed is scarce, grown exclusively by us. Pkt. 10c; oz. 40c;  $\frac{1}{4}$  lb. \$1.50; 1 lb. \$5.00.

**Wisdom**—This tomato of recent introduction has become very popular. It is a great yielder of large handsome red fruit, which ripens clean to the stem. It makes very strong vines and should be given plenty of room. Pkt. 10c; oz. 40c;  $\frac{1}{4}$  lb. \$1.50; 1 lb. \$5.00.

**Kellys Red**—This variety has obtained immense popularity in the last few years. It was originated in Anne Arundel County. Its solidity and carrying qualities are remarkable. Its color is a desirable red. Its shape perfectly smooth and thicker from

stem to blossom than most varieties, making it very handsome and salable. Nobody finds any fault with this variety, but all speak in the highest terms of its beautiful color, its wonderful yielding qualities, its unequalled firmness, or some other of its good points. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 85c; 1 lb. \$3.00.

**Greater Baltimore**—General crop tomato of sterling merits; large, smooth, beautiful red skin fruits, which are produced in great abundance until frost kills the vine. Price same as above.

**B. B. (Brinton's Best)**—A very fine late crop tomato, which is similar to the New Stone. Keeps well after being picked. A vigorous grower and quite popular. Price same as above.

**Ponderosa**—Remarkably large and of fine quality. Very solid. Pkt. 10c;  $\frac{1}{2}$  oz. 25c; oz. 40c;  $\frac{1}{4}$  lb. \$1.50.

**M. & S. IMPROVED NEW STONE**—This variety is one of the very best tomatoes grown. For productiveness, shipping and canning qualities it is excelled by none. Bright scarlet, fine flavor, very smooth and round. We recommend it as a thoroughly

reliable main crop tomato. Price same as Kellys Red.

**Matchless**—Large, solid, smooth, handsome, deep red color, a heavy cropper and popular with canners. Price same as above.

**Red Rock**—A tomato for main crop. Producing enormous quantities of fine, large, red tomatoes, which carry well, making it a good shipper. Price same as above.

**Golden Queen**—Bright-yellow, large and solid. Pkt. 10c;  $\frac{1}{2}$  oz. 25c; oz. 40c;  $\frac{1}{4}$  lb. \$1.50.

**Yellow Pear and Yellow Plum**—Two small-fruited kinds for preserves. Pkt. 10c;  $\frac{1}{2}$  oz. 25c; oz. 40c;  $\frac{1}{4}$  lb. \$1.25.

**Red Pear**—Pear-shaped red. Pkt. 10c;  $\frac{1}{2}$  oz. 25c; oz. 40c.

**Peach**—Very small, pink fruit, with slight peach bloom on skin. Pkt. 10c;  $\frac{1}{2}$  oz. 25c; oz. 40c. **TOMATO PLANTS**, p. 5.

**Husk or Strawberry**—Used for preserves. Pkt. 10c;  $\frac{1}{2}$  oz. 30c; 1 oz. 50c.

**Red Cherry**—Small, grows in clusters, also used for preserving. Price same as above.

**TOMATO PLANTS, SEE PAGE 5.**



1—Place Hotkap in "Setter."

2—Place Setter over Seed or Plant.

3—Press Setter  $\frac{1}{4}$ -inch in ground.

4—Place small amount of dirt around edge of Setter.



5—Remove Setter from Hotkap. One man can place 3000 kaps per day!

## You Make More Profit

### Using This Amazing New Method of Plant Protection

Last year thousands of growers added to the value of their vine and tomato crops by using Germac HOTKAPS—shown above. This remarkable invention consists of a scientifically constructed wax paper cone that you place over each plant. Thus they are miniature hot-houses that protect plants from frost, wind, rain, insects and ground crusting.

HOTKAPS not only protect plants, but make them grow harder and faster. Thus you get a greater crop production to market earlier for higher prices!

You can add to your next year's profit with Hotkaps. They cost but a fraction over a penny each. One man can "set" 3000 Hotkaps per day. They not only bring you higher prices, but are a method of crop insurance—against the danger of the elements.

Prices per roll (1,000 Hotkaps), \$11.50; (5,000 Hotkaps), \$11.00. Write for interesting pamphlet, or order today!

I planted watermelons and muskmelons under "Hotkaps" April 30th, and on May 7th they were coming through the ground. We had a severe hail-storm here on May 17th and if it hadn't been for the "Hotkaps" my melons would have been ruined.

AMOS LOWER, Williamsport, Ind.

We had a very cold, late spring to do planting of any kind. However, the vines started under "Hotkaps" are as long as a man's arm, vigorous and full of bloom. The transplants are just beginning to vine, and those seeded in the open have not begun to vine.

MRS. C. M. HANDLEY, Coshocton, Ohio.

## INDIVIDUAL HOTHOUSES For Every Plant

"Hotkaps" Furnish Each Young Plant With Complete Protection from Wind, Rain, Frost and Insects. Now Have Hardier Crops That MATURE EARLIER!

They are individual hothouses for each plant, economically priced, to insure against the crop hazards of frost, rain, wind and insects. They are made of strong, durable, especially prepared waxed paper, light in weight, easy to use, easily ventilated.

"Hotkaps" bring crops to earlier maturity. Many write us that they have been first to market by from one to three weeks, and as a result have been able to get higher prices.

Farmers quickly appreciate them. Once you've tried them, you'll always use them. They afford the best crop insurance, and bring you more profit.

"Hotkaps" are packed 1,000 to the roll, for postage add 28c to each 1,000.

Prices: 1,000, \$11.50; 5,000 at \$11.00 per 1,000. "Hotkap" Setters, each \$2.50, 10c extra for postage; "Hotkap" Carriers, each \$2.25, 10c extra for postage.

Prices on smaller quantities—100, \$1.50, 10c extra for postage.

We pay postage on pkts., ozs.,  $\frac{1}{4}$  lbs. and 1 lbs.(German—Wasser Melone.  
French—Melon d'eau)

## WATERMELON

One ounce for thirty hills; four to five  
pounds for an acre.

M. &amp; S. Excell Watermelon.

## TRY THESE IN YOUR NEXT GARDEN

**NEW M. & S. GOLDEN HEART WATERMELON**—A decided novelty in Watermelons. Vigorous vines producing an abundance of light green melons, which have delicious yellow meat almost to the rind. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c.**

**Culture**—Watermelons should be planted in hills eight to ten feet apart. Otherwise for culture, see directions for cantaloupes. Do not grow them near pumpkins or gourds.

**M. & S. SWEET HEART WATERMELON**—The sweetest melon that grows. The best for home use and nearby markets. The dark red meat which extends almost to the rind, is of the most delicious flavor. Vines are strong and vigorous, the melons are medium to large in size. The skin is a very rich, dark green color. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.**

**IRISH GREY**—The rind is exceptionally hard and firm. The flesh is bright red, sweet, firm but free from any hard centers or stringiness. A very desirable variety for those who prefer a long, light colored shipping melon. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.**

**M. & S. EXCEL**—A great improvement over Tom Watson. Long green. Excellent for market gardeners and shippers. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.**

**TOM WATSON**—Our strain of this wonderful shipping melon has been very much improved in the last few years. It commenced to show white, hard centers, but through careful selecting our strain will produce nothing but melons which are red from the rind to the center, not showing any white streaks. The rind is very tough, making it an excellent melon for shipping long distances. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.**

**McIVER'S WONDERFUL SUGAR**—Resembles Old Rattlesnake, superior in quality. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.**

**FLORIDA FAVORITE**—Large, long, striped, excellent for family garden. Rind thin, but firm; flesh very deep red and very sweet. Splendid shipper. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.**

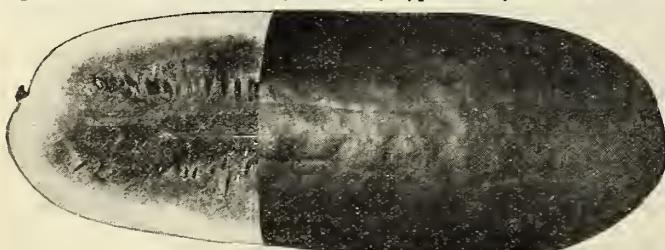
**GRAY MONARCH, OR LONG WHITE ICING**—Very large, long, crimson flesh. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.**

**INDIAN CHIEF**—Excellent shipper. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00.**

**IMPROVED GEORGIA RATTLESNAKE**—The old Rattlesnake has always been regarded as a fine melon. Our strain is the result of careful selection by an experienced melon grower through many years of careful and watchful work. The rind is thin and tough, the flesh deep scarlet, the flavor unsurpassed by any other sort. We strongly recommend it both for shipping and home use. Our improved stock is very much superior to the ordinary Georgia Rattlesnake. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.**

**IMPROVED KLECKLEY SWEET**—Some years ago our grower set out to perfect a new type of this favorite melon, for the reason that the original type began to show some deterioration, and the color of the seed was showing decidedly too much brown smear, melons were not all growing uniform in size, and with the feeling that it is a grower's duty to keep the type of all good melons up to standard he carefully selected and bred this type until we now have a much better melon than the old type Kleckley Sweet; this improved type grows uniformly large, retaining all of the fine qualities as a table melon, with an important added feature of having much harder rind, which assures its satisfactory carrying quality, while the old type will not stand even short distance shipping in carloads. The seed are all creamy white, with no trace of brown, somewhat larger than the old type seed, the color of the rind remain the same—dark bluish green—and grows to much larger size than the old type. Fine for the home garden. **Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. 90c.**

**CITRON**—Grows uniformly round and smooth, striped and marbled with light green. Flesh white and solid; seeds red. It should be borne in mind that this variety is not used for eating in the raw state, but for preserves, pickles, etc. **Pkt. 10c; oz. 15c; 1 lb. 75c.**



Improved Kleckley Sweet.



Tom Watson Watermelon.

# M. & S. RELIABLE GRASS, FORAGE AND FARM SEEDS

If Grasses Are Wanted by Parcel Post, Allow for Postage. Prices on Grasses Subject to Market Changes.  
Write for Samples and Prices in Larger Quantities.

**Blue Grass, Fancy Kentucky**—(*Poa Pratensis*)—Our stock of this is extra fine, thoroughly recleaned; sow 3 to 5 bushels per acre on lawn,  $\frac{1}{2}$  to 3 bushels on pasture fields (bu. 14 lbs.). Per lb. 40c. Larger quantity on application.

**Bermuda Grass**—Adapted for seashores, very hardy. 75c lb.

**Creeping Bent (Agrostis Stolonifera)**—Adapted admirably for lawns, also putting greens, tennis courts, etc.; sow 4 bu. per acre (20 lbs. per bu.). Price, lb. \$1.25.

**Crested Dogstail (Cynodon Cristatus)**—Excellent as a pasture and lawn grass. Sow 3½ to 4 bu. per acre (21 lbs. per bu.). Price, lb. 65c.

**English, or Perennial Rye Grass (Lolium Perenne)**. This makes the quickest returns in growth of any grass; is deep rooted and is readily established. Sow 2½ bushels per acre (20 lbs. per bu.). 25c per lb.

**Hard Fescue (Festuca Duriuscula)**—A splendid grass for golf links, tennis courts, etc.; will resist droughts. Sow 3 bu. per acre (12 lbs. per bu.). Price, lb. 50c.

**Herd, or Red Top Fancy Recleaned**—(*Agrostis Vulgaris*). This is one of the best grasses for sowing for immediate effect. Our stock is free from chaff and is absolutely pure. Sow 40 lbs. per acre (32 lbs. per bu.). Price lb. 40c.

**Meadow Fescue (Festuca Pratensis)**—Sow 40 to 50 lbs. per acre (22 lbs. per bu.). Price, lb. 35c.

**Italian Rye (Lolium Italicum)**—Very desirable for pasture; being an annual, it comes to maturity the first season; the ideal lawn seed for Southern lawns in winter. Sow 50 lbs. per acre (18 lbs. per bu.). 25c per lb.

**Orchard Grass**—(*Dactylis Glomerata*)—For early pasturing this is very desirable; also fine for sowing in shaded places. Sow 40 lbs. per acre (14 lbs. to bu.). Price, 30c per lb.

**Red, or Creeping Fescue (Festuca Rubra)**—Very valuable for sowing on sandy soil and in shaded places and putting greens, tennis courts, etc. Price, 50c lb.

**Woods Meadow Grass (Poa Trevialis)**—For shady situations, in parks and densely shaded lawns, this grass has no superior. It is related to Kentucky Blue Grass and produces a firm and attractive turf. 1 lb. 75c.

**Sudan Grass**—A tall annual grass, growing 6 to 8 feet high when drilled, but when sown broadcast thickly does not grow quite so tall. Every farmer and stock raiser should learn about this wonderful grass, as it is eaten by all kinds of stock, and will produce more hay to the acre than any grass that has ever been introduced. Allows 3 to 4 cuttings, and produces 2 to 5 tons per acre, depending upon the soil. Can either be drilled at the rate of 2 to 3 pounds per acre in 3-foot rows or broadcast at the rate of 10 to 20 pounds per acre. Plant from March to August. 25c per lb. Larger quantities, price on application.

**Timothy (Phleum Pratense)**—Sow one-half bu. per acre alone, with clover 1 peck (45 lbs. per bu.). 15c per lb. Price varies constantly; ask for quotations in larger quantities.

**Broom Corn (Sorghum vulgare)**—Succeeds in a good, deep soil, fresh but not damp, very sensitive to cold. Long-brush Evergreen, which is made into Brooms. (Bu. 50 lbs.). 20c lb.

**Kafir Corn**—Of great drought-resisting quality. Can be sown as late as July; 10 lbs. to the acre in drills (bu. 56 lbs.). 10c lb.

**Cow Peas (Vigna Catjang)**—Valuable in this latitude as a fodder plant; their chief value, however, is as a green crop to plow under. The seed should not be sown till the ground has become warm. Sow 2 bu. per acre broadcast; 1 bu. in drills. We offer Black Whipporwill, Gray, New Era, Black Eye and other leading varieties, also mixed. 10c per lb. Quantity price on application.

**Farmogerm, Humogerm or Mulford's Culture**  
For particulars see page 29.

An improved variety, medium early, growing 3 to 5 feet high. Heads are closely condensed, though the spikes are very numerous. Sow 40 to 50 lbs. broadcast to the acre (bu. 50 lbs.). 10c per lb.



M. & S. Permanent Pasture Mixture makes a nutritious food for cattle.

**M. & S. Permanent Pasture Mixture**, either for **Low** or **Up Lands**. It is made up of the grasses best calculated to afford an abundant and nutritious food supply for stock. The formulas are based upon successful experience. For all ordinary permanent pasturage, they will be found entirely satisfactory. When ordering state if for a low or up land, price of either lb. 35c; 10 lbs. or over at 30c; \$8.40 per bushel of 30 lbs.

**Rhode Island Bent**—For sowing at seashore resorts, on putting greens, tennis courts, etc. (14 lbs. per bu.). Price lb. \$1.25.

**Japanese Buckwheat**—In the locality of Baltimore this is sown anywhere from June 1st to July 15th; one bushel of 48 lbs. broadcasted to the acre. 15c per qt.; pk. 75c.

**Soja Bean (Glycine hispida)**—**Mammoth Yellow, Brown and Black, Pekin, Sable and Wilson Blacks**—All thrive well in our climate. Valuable for the South. Does not make good hay, but is good for ensilage or green fodder. Sow 1½ bu. per acre alone, or ½ bu. soja beans with 1 bu. cow peas. Yields as high as 20 tons of green feed per acre. 10c per lb; quantity price on application.

## Clover Seeds

Write for Samples and Prices in Larger Quantities.  
Prices Subject to Market Fluctuation.

**Alfalfa, or Lucerne (Medicago sativa)**—Requires deep, rich, well-drained soil. Roots very deeply, the tap-root descending often to a depth of 10 or 15 feet in loose soil. It is, consequently, capable of resisting great droughts. It should be sown alone (about the same time as oats are sown in this section) in thoroughly prepared, deeply plowed soil, at the rate of 20 to 25 pounds to the acre. It is also successfully sown as late as August and up to the middle of September. The crop should be cut when the plant is coming into bloom. In suitable soil it is perennial, and several crops may be cut every year. Height, one to three feet. We handle home as well as foreign grown alfalfa. 30c per lb. **Grimm Alfalfa**, certified, 50c per lb. Large quantity price on application.

**Alsike, or Hybrid Clover (Trifolium hybridum)**—A perennial, one to three feet high; grows well in our locality and can withstand severe cold. A good honey plant for bees. Fifteen lbs. to the acre. 1b. 35c.

**Red Clover (Trifolium pratense)**—One of the most valuable farm crops for pasture, hay, or for turning under for green manure. It requires a deep, rich soil and yields two hay crops in the season. Sow at the rate of 15 pounds to the acre. 1b. 35c.

**Mammoth Red, or Sapling Clover**—Grows larger and lasts longer than the common red clover; valuable for plowing under. Ten pounds to the acre. 1b. 40c.

**Crimson, or German Clover (Trifolium incarnatum)**—Erect annual, one to two feet high, with bright-scarlet flowers. It is largely grown for improving the soil by turning under. It is a valuable crop for pasturage or green manure. For hay it should be cut when in full bloom. Sow 20 pounds to the acre. 1b. 25c.

**White Sweet Clover (Meliilotus Alba or Bokhara)**—Valuable sort for soiling and for ensilage and bees. Grows from 3 to 5 feet high; sown in rich soil; may be cut three times; lasts for years if cut before flowering. 1b. 25c.

**White Clover (Trifolium repens)**—It makes an excellent turf that stands constant trampling. It is of dwarf habit, spreads rapidly and is very hardy. It is valuable in lawns and permanent pastures, being sweet and nutritious. Sow in Spring. In mixtures, one or two pounds; if alone eight or ten pounds to the acre. ¼ lb. 20c; ½ lb. 35c; 1b. 60c.



Soja Beans.



**M. & S. SELECTED FORAGE AND FARM SEEDS (Continued)**

**Peas (Canadian Field)**—Valuable for cattle feeding, especially for milch cows. It also makes fine ensilage. It is sown broadcast in the spring and harrowed in. If sown with oats, about  $1\frac{1}{2}$  bushels to the acre; in drills, two bushels to the acre (bu. 60 lbs.). **Lb. 10c.**

**Rape—Dwarf Essex English (Brassica napus)**—Is excellent for sheep and hog pasture, and chicken yards, also for soiling. It may be sown in May, and will be ready for pasturing in July and August. Or it may be sown in June or July, and yet furnish a large amount of pasture or fodder. In drills, sow five lbs. to the acre; sown broadcast, ten pounds to the acre. **Lb. 15c.**



Cow Peas

**Sorghum, or Sugar Cane**

Ideal cattle food. Sow 1 or 2 bu. broadcast; 25 lbs. to the acre in drills. (Bu. 50 lbs.)

**Early Amber**—Grows 10 to 13 feet high. Fine for cows, either green or cured. **Lb. 10c.**

**Early Orange**—Ripens about 10 days after Early Amber, and is said to produce a larger crop. **Lb. 10c.**

**Sunflower—Large Russian**—**Lb. 15c.**

**Vetch, Spring and Winter**

**Sand, Winter, or Hairy Vetch (Vicia villosa)**—Thrives on poor, arid, sandy soils. It may be sown either in Fall or in Spring, mixed with rye, for a support. Grows three to four feet high and can be cut as soon as the bloom appears, and again for the seed. Perfectly hardy. Sow 50 pounds to the acre. Price variable. **Lb. 25c.**

**Spring Vetch**—Same as above, but not hardy; sow in Spring only. **Lb. 15c.**

**Winter Barley**

48 lbs. per bu. 96 to 110 lbs. per acre.

One of the most productive Fall seeded grain crops grown. Being planted more extensively each year. Provides an abundance of highly nutritious forage, hogs, sheep, cattle, etc., being especially fond of it. Grown in this section largely for grain. Yields 25 to 50 bushels per acre. Invariably brings good market price. Sow 1 to  $1\frac{1}{2}$  bushels per acre broadcast. **Lb. 5c.**



Sorghum

**Mulford Culture and Farmogerm Nitrogen-Fixing Bacteria for All Kinds of Clover**—Means bigger crops, healthier growth, early and more continuous crops. Special reduced prices this season. It will pay you to use this when you plant peas and beans. For particulars see page 29.

**Oats**

Appler, Virginia Gray and other best varieties for Fall and Spring sowing. 32 lbs. per bu. Sow 64 to 90 lbs. per acre. **Lb. 5c.**

**Seed Rye**

The most popular Fall seeded forage and fertilizing crop grown. Furnishes excellent green food for poultry, hogs and live stock of all kinds. Keeps stock healthy and saves expensive commercial dry feeds. Hogs on rye pasture will make the same gains with half the amount of grain feed. Sow 1 to  $1\frac{1}{2}$  bu. per acre broadcast.

Rosen and other varieties. Sow  $1\frac{1}{2}$  bu. to the acre from July to November. 56 lbs. per bu. Sow 85 to 100 lbs. per acre. **Lb. 5c.**

**Seed Wheat**

Bearded and Beardless varieties. 60 lbs. per bu. Sow 90 to 100 lbs. per acre. **Lb. 5c.**

**Field Corn**

8 quarts to the acre.  
Prices Subject to Change  
Without Notice.

Prices on Field Corn do not include postage.

**Collier's Success**—The ears are of immense size, 12 to 14 inches long, 8 to 10 inches in circumference, carrying 20 to 24 uniform rows of large yellow kernels, well developed over tip and butt. It is a luxuriant grower, about 12 to 15 feet high. Matures in 100 days. Makes a splendid ensilage corn, making two ears on many stalks. Qt. 25c;  $\frac{1}{4}$  pk. 40c; peck \$1.00; bu. \$3.50.

**Yellow Leaming**—We have a very choice strain of this early, drought-resisting variety. It makes a fair-size ear, with deep, well-shaped grains, and will mature in 100 days. Qt. 25c;  $\frac{1}{4}$  pk. 40c; bu. \$3.50.

**Golden Beauty**—Large, broad-grained, yellow corn. Ears are well filled out. A heavy yielder. Qt. 25c;  $\frac{1}{4}$  pk. 40c; pk. \$1.00; bu. \$3.50.

**Maryland Yellow Dent**—Large ear; moderate size stalk; withstands drought well. Qt. 25c;  $\frac{1}{4}$  pk. 40c; pk. \$1.00; bu. \$3.50.

**Hickory King**—A very broad-grained white corn that does well on light ground. A good corn for the South. Very small cob. Generally two ears to the stalk and occasionally three. Qt. 25c;  $\frac{1}{4}$  pk. 40c; peck \$1.25; bu. \$4.50.

**Boone County White**—Recommended by the Agricultural Experimental Stations. A fine, large deep-grained variety, originated by one of the best corn breeders. Qt. 25c;  $\frac{1}{4}$  pk. 40c; peck \$1.00; bu. \$3.50.

**Collier's Excelsior**—White corn, especially adapted for hominy corn on account of its flintiness. Great producer on poor soil. Qt. 25c;  $\frac{1}{4}$  pk. 40c; peck \$1.00; bu. \$3.50.

**M. & S. White Ensilage Corn**—Very prolific, tall grower. Qt. 25c;  $\frac{1}{4}$  pk. 40c; peck \$1.25; bu. \$4.50.

**Red Cob 90-Day Corn**—A valuable corn for the truck farmer, as it readily sells for sugar corn on account of its similarity, showing long blades on the ears; very delicious when young. Qt. 25c; 2 qts. 40c; pk. \$1.25; bus. \$4.25.



Boone County White Corn

**WHITE RICE POP CORN**—The best pop corn known. Pops large, flaky and white as snow. **Lb. 15c.**

Large returns  
Small cost

Improve  
No labor expense  
Easy to use

# Mulford Cultures

FOR LEGUMES

Legume crops, properly inoculated with nitrogen-fixing bacteria, add both humus and nitrogen to the soil and should be included in every crop-rotation program.

Inoculate all your legume crops with **Mulford Culture Concentrates**. Especially recommended because they contain enormous numbers of active, vigorous nitrogen-fixing bacteria, grown from pure, tested strains.

**Mulford Culture Concentrates** are prepared with the utmost scientific care and skill. Economical. Easy to use. The sealed bottle insures purity.

They offer you the most economical and satisfactory method of adding nitrogen to your soil.

Always specify on your Order what crop you want to inoculate.

### FOR SMALL SEEDS

10, 2½, 1 and ½ bushel sizes

Alfalfa	Crimson Clover
Burr Clover	Red Clover
Sweet Clover	Alsike Clover
Yellow Clover	Berseem Clover
Sainfoin	White Clover
Lespedeza	Mammoth Clover
Beggarweed	

10 bushel size.....	\$8.00	20 bushel size.....	\$8.00
2½ bushel size.....	2.25	5 bushel size.....	2.25
1 bushel size.....	1.00	2 bushel size.....	1.00
½ bushel size.....	.60	1 bushel size.....	.60
Garden size (composite culture for Garden Beans, Garden Peas, Lima Beans and Sweet Peas).....			.35

FREE DESCRIPTIVE FOLDER SENT UPON REQUEST

### FOR LARGE SEEDS

20, 5, 2 and 1 bushel sizes

Canada Peas	Cow Peas
Field Peas	Velvet Beans
Garden Peas	Peanuts
Sweet Peas	Soy Beans
Perennial Peas	Mung Beans
Vetch	Garden Beans
Lupins	Lima Beans

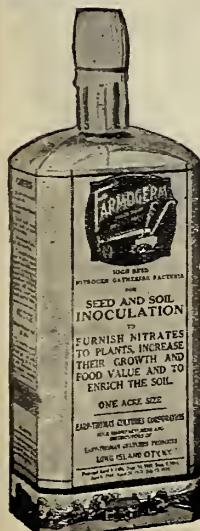


## SEED INOCULATION

The Best Inoculation for All Legume Seeds Means Better Crops, Better Soils, Less Fertilizer Expense.

Legume Inoculation  
**HUMOGERM**  
HUMUS MEDIUM

**FARMOGERM**  
JELLY MEDIUM



Scientifically selected bacteria on nitrogen-free jelly medium in bottles with exclusive patented ventilating stopper insuring purity.

Seeds of all legumes—clover, alfalfa, sweet clovers, soy beans, vetches, etc.—will yield far better returns if inoculated before planting, and in addition leave in the soil heavy deposits of valuable nitrogen which benefits all succeeding crops. It is crop insurance at very low cost, and the results will repay the small effort involved beyond your expectations.

These scientifically bred cultures are far superior to the natural germs in the soil and therefore inoculation is preferable to uncertain and laborious soil transfer.

### Farmogerm and Humogerm for All Clovers

NEW LOW PRICES—POSTPAID

1/4-bus. size .....	\$0.35	1 -bus. size .....	\$1.00
1/2-bus. size .....	.60	2 1/2-bus. size .....	2.25

(Special for Farmogerm only—10-bus. size.....\$8.00)

Special Reduced Prices on Culture for Large-Size Seeds, Such as Soy Beans, Vetch, Cowpeas, Peas and Beans.

1/2-bus. size .....	\$0.35	1-bus. size .....	\$0.60
		5-bus. size .....	\$2.25

Special Garden Size for Garden Peas, Beans, and Sweet Peas, 25c.



Ventilated can  
opens easily with  
out cutting

Be Sure to Specify Quantity and Variety of Seeds You Wish to Inoculate

## M. &amp; S. FLOWER SEED DEPARTMENT

All Flower Seeds 10c pkt. unless otherwise noted.  
August 1st we issue a Fall Catalogue on Spring Flowering Bulbs, etc. Write or send for it.

Semple's Branching Aster.

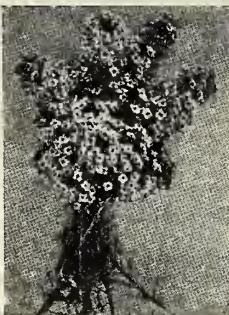
All pkt. of Seed 10c unless otherwise noted.

**Annuals.** These grow and bloom, mature their seed, then die in the same year, such as Asters, Balsams, Poppies, Sweet Peas, Morning Glories, etc., some of which may be sown in the house from March to May, or outdoors after danger from frost is over.

**Biennials.** These grow from seed sown during mid-summer, flowering the second year, after which they die; many of the varieties bloom the first season if sown early. In this class we have Pansies, English Daisies, Campanula Medium, Dianthus, etc.

**Perennials.** Those which live from year to year, such as Aquilegia, Delphinium, Foxglove, etc. Seed may be sown outdoors from June to September and transplanted late in fall into their permanent quarters, and protected during winter with a light litter of straw or leaves. The hardy perennials not usually needing any protection after the first winter; the half-hardy perennials require protection during the winter, and the tender perennials during the winter require greenhouse protection.

1. **Anchusia** (Italica Drapmore) (p), 3 to 5 feet high. Blooms May and June, rich gentian blue.



Alyssum

1a. **Aconitum** (p) (Monks Hood).1b. **Alysum Yellow** (p). Basket of Gold1c. **Asparagus Plumosus** (a). 25 seeds

25c; 100, 75c.

2. **Ageratum** (a) (Floss Flower)—An excellent plant for edging or solid effects. A continuous bloomer. Imperial Dwarf Blue, Imperial Dwarf White or mixed. Oz. 75c.

2a. **Anemone Coronaria** (a)—Extra large double and semi-double flowering hybrids. The seed we are offering is grown from a very select strain of real large double and semi-double flowers and contains a large variety of bright showy colors. Anemones are easily grown from seed, bloom early, when good cut flowers are scarce, and are perfectly hardy. Pkt. 10c.

3. **Alyssum** (a) (Carpet of Snow)—One of the most popular garden flowers; in bloom all season. Used for edging or in rockeries or vases. Oz. 75c.

4. **Amaranthus** (a)—Decorative Foliage plants. Caudatus (Love Lies Bleeding) drooping crimson racemes. Tri-color Splendens (Joseph's Coat), leaves red, yellow and green.

4a. **Arabis** (p)—Rock Cress. Early spring flowering plants especially adapted for edging and rockery, 6" high, pure white blossoms, flowers in May.

5. **Antirrhinum** (p) (Snapdragon)—A splendid plant for beds or borders and one of our choicest cut flowers. To have flowers early, sow indoors during February and March. Empress, crimson; Fawn, pink suffused yellow; Golden Queen, yellow; Purity, white; Silver Pink, pink self and all colors mixed—oz. \$1.00.

**M. & S. SUPERB ASTERS** (a)—To our minds there is no other flower which combines so much beauty with grace and usefulness. In bloom from July till frost. To have early flowers sow indoors from March till May, otherwise sow outdoors. Asters require well-pulverized soil.

## WE LOVE TO HEAR FROM SATISFIED CUSTOMERS

Gentlemen:

I was told at the local Florist Exchange that I was bringing in the best Asters they have seen for the last two years. I bought the seed from your house, they were your American Beauty.

Yours truly,  
GEO. C. PERSENNETTI.

Mrs. Frank Jennings, of Severn, Md., tells us that our Aster seed produced the finest flowers she has ever seen.

6. **M. & S. AMERICAN BEAUTY ASTER**—The Queen of All Asters. Very new, far superior to Peony and Branching varieties. In 7 colors: Azure Fairy, light blue; Carmine, Rose, Purple, Lavender; September Beauty, delicate flesh pink; White Beauty, giant white, and all choice mixed. Oz. \$2.50.

7. **THE SUNSHINE ASTER** (Improved Anemone Flowered)—One of the most attractive novelties. The plants are sturdy and strong, throwing up long flower stalks, making wonderful cut flowers. Some of the flowers have twisted petals and some have quilled petals; all have a cushion center of tiny quills of a contrasting color which makes a flower look as if it were covered with snowflakes. The blue flowers are dotted with a paler blue and some in white, and the rose in a lighter shade of pink or white. Their delicate beauty is hard to describe.

Sunshine White.

Sunshine Blue.

Sunshine Lilac.

Each of the above, pkt. 25c. Mixed, all colors. Pkt. 25c.

8. **Aster Ostrich Plumed**—Very beautiful: White rose, crimson, light blue, dark blue and choice mixed. Oz. \$2.00.9. **Asters, Semple's Branching**—In 5 distinct colors: white, pink, crimson, lavender, dark blue, and all colors mixed. Oz. \$1.75.10. **Aster, Queen of the Market**—Very early: White, pink, lavender, scarlet, dark blue and choice mixed. Oz. \$1.50.

Sunshine Aster.



American Beauty Aster.

11. **Perennial Aster** (a) (Michaelmas Daisy) (p).
12. **Balloon Wine** (a) (Love in a Puff)—A rapid growing annual climber. Seed pods look like miniature balloons.
13. **Balsam** (a) (Lady's Slipper)—An old-fashioned flower. With plenty of room they will develop to immense plants with gorgeous flowers.
- 13a. **Balsam Apple** (a) (Momordica)—Handsome climbing annual, bearing ornamental orange colored fruit.
14. **Begonia** (a)—Invaluable for bedding and pot culture; about one foot high, beautiful foliage pink, white and crimson mixed.
- 14a. **Brachycome** (Swan River Daisy)—A desirable hardy annual, blooming profusely the greater part of the summer; small blue flowers resembling those of the Cineraria; 9 inches.

All Flower Seeds, 10c pkt., unless otherwise noted.

15. *Calendula* (a) (Pot Marigold)—Free flowering, in bloom from early summer till frost. They may also be successfully grown indoors. Lemon, Queen, Meteor, Orange King and mixed. Oz. 40. Balls Strain—Oz. \$1.50.

California Poppy—(See *Eschscholtzia*)

16. *Callopis* (a)—A very showy annual in bloom from early summer till frost. Lemon, yellow with dark brown centers, rich crimson and mixed. Oz. 50c.

17. *Campanula Media* (p) (Canterbury Bell)—These are strictly biennials and require the following cultural directions: Sow from June 1st till September 1st; when strong enough transplant to a distance of six inches apart, after frost has set in protect with leaves and straw. They flower the following June, after which they die. Their colors are so pure that gorgeous effects can be achieved with them. Single blue, pink, white or mixed. Oz. 75c.

18. *Canary Bird Vine* (a)—One of the most charming annual climbers, bearing hundreds of pretty, fringed bright yellow flowers, which resemble a canary bird with expanded wings. Oz. 35c.

18a. Candytuft (a)—Dwarf, profuse flowers, of easy culture; useful for bedding and borders. Pink, rose, white and choice mixed. Oz. 40c.

18b. Candytuft Perennial—Iberis. (p) White and lilac,  $\frac{1}{4}$  oz. 80c.

19. *Canna* (a)—(Indian Shot)—Although these are generally planted from roots, they may be grown from seeds. Oz. 30c.

Canterbury Bell—See *Campanula*.



Centaurea Cyanus  
Cornflower, or Bachelor's Button

Double blue, purple, pink, white and mixed. Oz. 40c.

21. *Centaurea Imperialis*, or Sweet Sultan—Gigantic, beautiful, sweet-scented flowers, borne on long stems. Mixed. Oz. \$1.00.

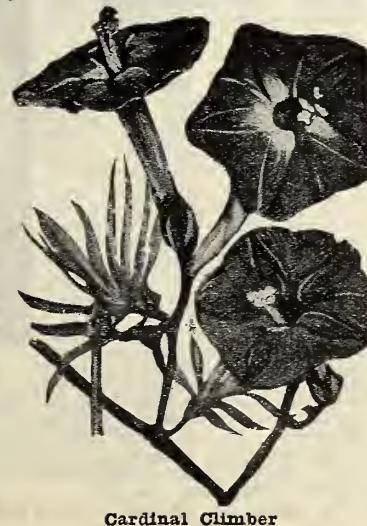
22. *Centaurea*, White Leaved (Dusty Miller)—Grown for their silver foliage; fine for edging and hanging baskets.  $\frac{1}{4}$  oz. 30c.

22a. *Cerastium* (a) (Snow in Summer)—Dwarf, white-leaved edging plant: flowers white. Oz. 40c.

22b. *Chrysanthemum* (a)—Garden varieties. Double, white pearl, yellow and mixed.

23. *Cineraria*—One of the most ornamental and useful plants for conservatory and house decorations. Mixture, 80c and \$1.00.

23a. *Clarkia* (a)—One of the prettiest and showiest hardy annuals. The plants bloom so freely and have flowers of such various bright colors that a bed of them in full bloom is a beautiful sight. They are useful, too, for hanging baskets, for vases and as edging plants. Sow outdoors in early Spring and grow in partial shade. They bloom through midsummer to late autumn. Average height,  $1\frac{1}{2}$  feet.



Cardinal Climber

*Castor Bean*—  
See *Ricinus*.

24. *Celosia Cristata* (a) (Crested Cockscomb)—Very desirable annual of easy culture large comb-like heads, excellent border plants, very good for pots Mixed Oz. \$1.00.

24a. *Celosia Plumosa* (a) (Feathered Cockscomb)—Very decorative plant for the garden. The feather plumes are excellent for cutting Can also be cut and dried for winter use. Mixed colors. Oz. 60c.

25. *Cobea scandens* (a) (Cup and Saucer Vine)—

Well-known climber of rapid growth producing large bell-shaped blossoms; in sowing place the seeds edgewise, and merely cover with light soil.

25a. *Coreopsis (Lanceolata Grandiflora)*—A hardy perennial bearing a profuse and long-continued succession of large, bold, golden yellow flowers during the whole summer months. Seed sown in March will flower the same season. Height,  $2\frac{1}{2}$  feet.

25b. *Coleus* (a)—Large Leaved Hybrids—Popular bedding plant with beautifully colored foliage; easily grown from seed if kept in warm temperature.

*Convolvulus*—See Japanese Morning Glory.

26. *Columbine*, or *Aquilegia* (p)—A most desirable border plant. It forms large clumps, blooms early, long and abundantly, is useful for cutting and elegant in habit. Sow seed in the open ground in Spring, preferably where the plants are to grow, and thin to about a foot apart. Sow in the Fall for flowering the following season. They thrive well under ordinary garden culture. Few hardy perennials are so easily grown from seed, and will give such unalloyed satisfaction. White, yellow, blue and violet, scarlet and yellow and mixed. Oz. 90c.

27a. *Cyclamen* Seed—Most beautiful winter and spring flowering plants for the window and greenhouse. Not only are the flowers of striking beauty, but the foliage is also highly ornamental.

Pearl of Zeblendorf—Salmon pink. Rose of Zeblendorf—Rose of Marienthal—Bright pink. Glowing Red—Finest red. Pkt. 50c; 100 seeds \$1.50.

28. *Cosmos* (a) (Lady Lennox)—Giant flowering. An autumn flowering plant. A charming profuse bloomer. Crimson, pink, white and all colors mixed. Oz. 50c.

28a. *Cosmos Klondyke* (a)—Same as above, but a clear orange yellow. Pkt. 10c; oz. \$1.00.

29. Early Summer-flowering *Cosmos* (a)—Coming into flower in July, continuing until frost. Can be grown in the North where the seasons are too short for other strains. Dwarf, compact growth; 4 feet. Flowers beautiful and large; petals broad; crimson, pink, white and all colors mixed; profuse bloomer. Oz. 50c.

29a. Double-crested *Cosmos* (a)—Extra early flowering. This is an entirely new class of cosmos, producing double-crested flowers of exceptional beauty. The grower does not claim that all plants have double flowers, but the fields show about 50 per cent; but the ones that do not show double are dreams of beauty. Pink, white, crimson and mixed. Seed scarce.

30. *Cypress Vine* (a) (*Ipomoea Quamoclit*)—A very graceful annual climber, with feathered foliage and beautiful star-like flowers. Scarlet, white, mixed. Oz. 50c.

*Dahlias* (a) (from seed)—There is no more fascinating flower to raise from seed than the dahlia, for the result is a series of surprises. Seed should be started in the house from February till May and the young plants should not be set outdoors until danger from frost is past. Cactus single and double flowering varieties.

31. *Dahlia*—Single mixed.

32. *Dahlia*—Double mixed.

32a. *Dahlia*—Cactus mixed.

33. *Daisy* (p), English Double (*Bellis Perennis*)—Seed should be sown from June 1st till September, transplanted in the Fall, and they will flower the following Spring. If sown in the Spring they will flower in the Autumn; 4 inches; white, pink, crimson and mixed.

33a. *Shasta Daisy* (p)—Very large; white single flowers on long stems.

34. *Dianthus* (p), China Pink—One of the most popular flowers in cultivation; blooms profusely. Great variety of colors. Extra choice. Single mixed, double mixed, pure white, pink and crimson. Oz. 60c.

All Pkt. Seeds 10c  
unless otherwise noted.

Mrs. John P. Kearpott, of Camp Mead, Md., tells us that our Klondyke Cosmos turned out most wonderful.



Crested Cockscomb

**35. Delphinium (p)** (Hardy Perennial Larkspur) — Highly prepossessing plants of stately appearance; of easiest culture, they are readily the most popular of all hardy plants. Their main season of bloom is in June, but if the flower spike is cut back promptly it will branch and flower all through Fall. **Formosum:** Deep Blue. **Bella-donna:** Light Blue. Oz. \$3.50. White, oz. \$1.25. **Deep Scarlet:** Oz. \$2.00. **M. & S. Giant:** Mixed. \$1.00 per oz.

**36. Dimorphotheca (a)** (Golden Orange Daisy)—One of the showiest garden plants of recent introduction; fairly compact, bushy plants are literally covered with brilliant orange - gold, daisy-like blooms, on fairly long stems during the entire season; excellent for cutting.

**37. Didiscus—Lace Flower**—This pretty and interesting annual blooms most profusely from July till November; their exquisite pale lavender blossoms are excellent for cutting; plants grow about 18 inches high, and have as many as 50 flowers open at one time.

**37a. Digitalis (p)** (Foxglove)—Handsome ornamental hardy plants of stately growth, succeeding almost anywhere. Produces long spikes of beautiful, tubular-shaped flowers; 4 to 5 feet. Purple, rose, white, spotted mixed and all colors mixed. Oz. \$1.00.

**38. Dolichos (a)** (Hyacinth Bean, or Texas Climber)—Showy climber, making rapid growth. White, purple, mixed. Oz. 25c.

**39. Eschscholtzia (a)** (California Poppy)—An elegant hardy annual with fine cut foliage and large poppy-like flowers; blooms from June till frost; fine for borders or large beds. Yellow and choice mixed. Oz. 40c.

**40. Euphorbia (a)**—Plants with ornamental foliage, very showy and easily raised from seed. Known as "Snow on the Mountain." Oz. 60c.

**40a. Echinops (p)** (Globe Thistle)—Excellent background for perennial border; blue; 6 feet.

**Forget-Me-Not**—See Myosotis.

**Four O'Clock**—See Marvel of Peru.

**Foxglove**—See Digitalis.



Hyacinth Bean—Most Ornamental Climber.

**48a. Hibiscus (p)** (Mallow) — These bear very showy flowers, are easily grown and should find a place in every garden. Mixed colors, white, pink and red; and Golden yellow. Sunset; height, 4 ft.

**Hollyhock (p)** — One of the most popular and desirable of hardy perennials. Excellent for planting among shrubbery or fringing a background for other flowers; 6 to 7 feet.

**49. Chater's Improved Double Hollyhock** in separate colors: Rose white, salmon, maroon, yellow, Newport pink, crimson and mixed colors. Oz. \$1.25.

**49a. Hollyhock Single** — Choice colors mixed. Oz. \$1.25.

**49b. Heliopsis (p)** (Orange Sunflower) (Pitcheriana)—A handsome hardy perennial; producing an abundance of deep orange yellow flowers the entire Summer; excellent for cutting; 3 to 4 feet.

**49c. Hunnemannia (a)** (Giant Yellow Tulip Poppy) — Sown outdoors in May it produces large quantities of giant yellow tulip-like flowers during end of August, continuing for the balance of the season; the foliage resembles Eschscholtzia; height, 2 feet.

**Hyacinth Bean**—See Dolichos.  
**Ipomoea**—See Moonflower.

**49d. Ice Plant (a)**—Beautiful dwarf edging plants; flowers profusely in dry and sunny situations. Fine for pots. Covered with watery vesicles resembling pieces of ice.

**50. Job's Tears (a)**—Seeds are used for stringing instead of beads. Oz. 50c.

**50a. Jerusalem Cherry Solanum (a)**—Indoor pot culture. Pkt. 25c.

**51. Kochia (a)** (Summer Cypress, or Mexican Fire Bush)—An easily grown annual, which grows into a cypress-like hedge, with feathery green foliage; at the approach of Autumn the foliage turns to a deep red color; 2 to 3 feet. Oz. 40c.

**Lace Flower**—See Didiscus.

**52. Kudzu Vine (p)** (Pueraria Thunbergiana)—The Kudzu vine comes from Japan, the land so productive of curious and ornamental flowers. It is a beautiful climber, remarkable for its great vigor of growth and its handsome purple flowers. The vine is extremely rapid and dense in growth, perfectly hardy, increasing in size and beauty year after year; fine for arbors, verandas, etc.

**52a. Lantana (a)**—Most desirable bedding plant; seeds are best germinated in a greenhouse from January till March. Flowers resemble Verbena; plants bloom all Summer. Mixed. Oz. 50c.

**Larkspur**—See page 33.

**53. Lathyrus Latifolius** Perennial Sweet Pea)—Showy hardy climber, fine for covering walls and stumps. Free flowering. Pink, red, white pearl and mixed colors. Oz. 60c.

**54. Lupinus (a)**—Very desirable garden plants, showy, excellent for cutting. Graceful spikes 2 feet long in various shades of white, blue, pink and yellow mixed. Oz. 60c.

**55. Lupinus (p)**—Mixed colors.

**Marigold (a)** — These are old favorite free flowering annuals with rich showy flowers blooming all summer. The tall African varieties are best for garden and cutting, while the dwarf French varieties are best suited for edging and bedding purposes. In colors and mixed.

**56. Marigold, French**—Legion of Honor, single brown and yellow; Golden Ball, double golden yellow, dark and all colors mixed. Pkt. 10c; oz. 60c.

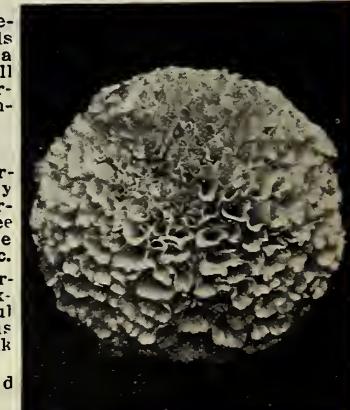
**57. Marigold, African**—Lemon Queen, Orange Prince and mixed colors. Pkt. 10c; oz. 75c.



Helichrysum or  
Strawflower



Kochia or  
Summer Cypress



Marigold



Gaillardia

**44a. Geum (p)**—Double flowers of intense orange scarlet, 2 feet high, for sunny location.

**45. Gypsophila (a)** (Baby's Breath)—Pretty, free-flowering plants of easy culture; excellent for cutting to mix with other flowers. White and carmine. 2 feet. Oz. 50c.

**45a. Gypsophila (p)**—Paniculata alba. White. Oz. 75c.

**Helianthus**—See Sunflower

**46. Heliotrope (a)**—A well known and highly prized plant on account of the delightful fragrance of the flower. Excellent for pots or beds. Pkt. 10c and 25c.

**47. Helichrysum (a)** (Strawflower)—One of the best and most popular of the everlasting flowers. Valuable for cutting or decoration either when fresh or dried. Mixed colors. Oz. 50c.

**48. Humulus (a)** (Japanese Hop)—A rapid growing annual climber with luxuriant foliage; excellent for covering trellises and verandas. Oz. 50c.



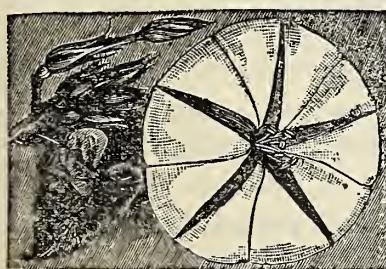
Marvel of Peru

Mignonette (a)—Valuable for cutting on account of its fragrance. Sow in succession during the whole Summer; may also be forced in greenhouses during Winter.

60. Golden Macheat—Large reddish tinted, sweet scented flowers. Oz. 75c.

60b. Mimulus (a) (*Tigrinus*)—Showy, profuse flowering plants; fine for greenhouses or moist, shady situations; 1 ft.

Momordica—See Balsam Apple.



Moon Flower.

62. Imperial Japanese Morning Glories (a)—These are beyond question the handsomest of all Morning Glories. Of the easiest culture, can be sown in the open ground in a sunny situation when the weather has become warm and settled; they soon



Mignonette.

61. Moon Flower (a) (*Ipomoea Noctiflora*) Climber. At night and during dull days the plants are covered with an abundance of large, pure white fragrant flowers. Oz. 75c.

## M. & S. GIANT FLOWERING NASTURTIUMS

### M. & S. Dwarf-Named Nasturtiums



M. & S. Giant Flowering Dwarf Nasturtiums

67. Vesuvius (Salmon Rose)—These have a neat, compact habit and attractive foliage, are not disturbed by insects, bloom in two months from sowing, and most profusely the whole season.

68. Chameleon—Produces various colors and markings on the same plant.

69. Empress of India—Dark-leaved velvety dark scarlet flowers; select flowers.

70. Spotted King, or Ladybird—Rich yellow, scarlet-spotted flowers, dark-leaved; splendid.

71. Queen of Tom Thumbs—Variegated foliage; choicest mixture.

72. Golden Queen—Yellow-leaved, with golden yellow flowers.

Prices on all the varieties as follows:

Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c.

Our Nasturtiums are noted for their size, variety and brilliancy.

M. & S. Fancy Giant Flowering Mixed Dwarf—Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00.

M. & S. Tall or Climbing Nasturtiums—For covering trellises, fences, arbors, piazzas, or trailing from vases, urns, etc. Bloom from early Summer until frost.

Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00.

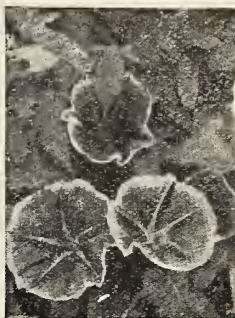
cover a large area, and even before flowering are decidedly interesting on account of the varied forms of the foliage and their markings. The flowers are of gigantic size and their colorings beyond description; the self or solid colors range from snow-white to black-purple, with all the possible intermediate shades; there is also an endless number having flowers spotted, marbled, striped, flaked, splashed, etc. Oz. 25c.

### 63. Double-Flowering Morning Glories

(a)—These beautiful climbing annuals are of very rapid and luxuriant growth; the flowers will come double, semi-double and a few, perhaps, single. The colors vary; there are various shades of blue, white spotted with red, white marbled with purple and lavender, crimson, pure white, etc. Mixed colors. Oz. \$1.00.

### 64. Fancy Fringed Morning Glories (a)

—The perfection of morning Glories. Immense flowers, often as big as saucers, all wavy, ruffled and fluted from throat to margin, like crumpled velvet. They are simply magnificent. Mixed colors. Oz. 50c.



Morning Glory

Mourning Bride—See Scabiosa.

65. Myosotis (Forget-Me-Not)—Beautiful, half hardy perennials, blooming the first year.

Nasturtium—See below.

65a. Nicotiana (a)—Splendid showy flowers on long terminal tubes. It is so fragrant that a small bed will perfume the surrounding atmosphere. Mixed colors and pure white and purple.

66. Oenothera (a) (Evening Primrose)—Beautiful low-growing plant, producing large, silvery white rose and yellow flowers. They thrive best in a sunny position, but succeed in almost any situation or soil. Annual varieties, all colors; mixed.

66a. Ornamental Grass (*Festuca Glausa*)—Pkt. 10c.

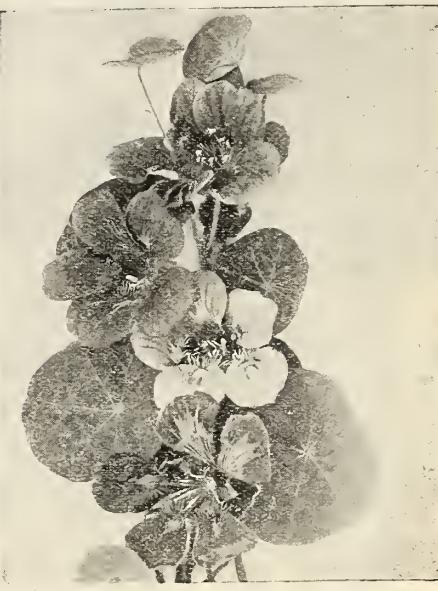
66b. Passion Flower (p) (Southern Beauty)—Climber mixed. Called "Passion Flower" on account of a resemblance in the flower to the appearance presented at Calvary.

Use our High-Grade Sheep and Cattle Manure extensively in your flower garden and be repaid by best results. We can sell you a cart load in a 100 lb. bag. (See cover page for price.)

Gentlemen:

We surely were pleased with the seeds last year. I had the loveliest Straw-Flowers I have ever seen; some of the "trees" the children called them, were 5 ft. high and blooms as large as a silver half dollar. My snapdragons were also very beautiful.

Mrs. Irene Jessop, 315 Caton Ave.



M. & S. Tall or Climbing Nasturtiums

# M. & S. PERFECT PANSIES

## PANSIES

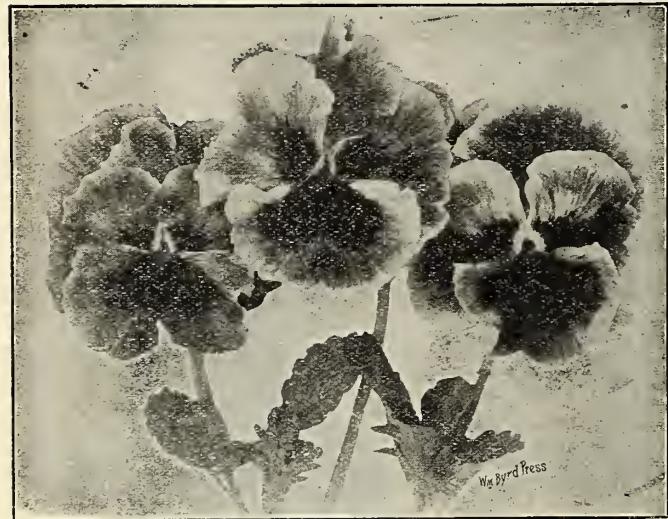
Strictly considered this is a biennial, but the fact that it flowers the first season from seed recommends it for an annual. There are actually three seasons in which Pansies can be planted. If started in the house from February till April Pansies will begin to bloom from July on; sown outdoors in May beautiful flowers are produced in the Fall; sown in frames during July and August and transplanting later gives us the main crop of flowers the following spring. Pansies thrive best in moist semi-shade situations.

**73. Triumph of Giants**—Flowers of great brilliancy and richness of coloring, including many new and rare shades. Pkt. 25c; 5 pkts. \$1.00; oz. \$6.00.

**73a. Masterpiece** (Frilled Pansy)—Flowers beautifully curled or waved. Exquisite colors. Pkt. 25c; 5 pkts. \$1.00.

**74. Steele's Special Greenhouse Mixture**—Equally good for outdoor. Pkt. 25c; 5 pkts. \$1.00; oz. \$6.00.

**74a. Tufted Pansies or Violas**—While the flowers of the Tufted Pansies are not so large as the regular type, yet they bloom so freely that they are superior to pansies where effect is wanted, the colors being particularly clear and distinct; they also bloom for a longer time. Seed sown in April produces flowering plants by June, and from then on until frost they are a sheet of bloom. All colors Mixed and Blue. Oz. \$2.50.



M. & S. Giant Exhibition Pansies

**74b. M. & S. GIANT EXHIBITION PANSIES**—A blending of our own, containing only the very choicest the specialists in Europe have to offer; it can be relied upon to produce flowers of immense size, very heavy texture and of the most brilliant colors. Per oz. \$3.00.

**75 M. & S. GIANT PANSIES**—In separate colors.

Mention number and variety wanted when ordering.

Lord Beaconsfield—Purple, violet and white.

Snow Queen—Pure white.

Emperor William—Indigo blue black, blotched.

Canary Bird—Pure yellow.

King of the Blacks—Lustrous jet black.

Lord Baltimore—Yellow maroon blotches.

May Queen—White with violet blotches.

All the above: \$2.50 per oz.

**75a. Pennisetum** (a)—Fountain grass. Pkt. 10c.

## Poppies

### ALL FLOWER SEEDS 10 CTS. PER PKG. UNLESS OTHERWISE NOTED

A great advance has been made in recent years in the development of the Poppy which has brought it into deserved popularity, and it may be safely said that no other flower produces a more brilliant display of color during the blooming period. Annual Poppies should be sown as early in the Spring as possible where they are to remain, as they do not stand transplanting. If constant blossoms are desired, successive sowings should be made every two weeks.

**76. Orientale Poppies** (p)—Enormous flowers of deep, flashing scarlet, entirely hardy anywhere, and mixed; 3 feet.

**76a. "Mikado"** (a)—Double t.<sup>r</sup> Striped Japanese Poppy—This beautiful Poppy is very distinct in character and color. The flowers are brilliant scarlet and white, with elegantly curved petals, like a Japanese Chrysanthemum.

**77. American Flag** (a)—Beautiful variety; flowers very large and double, snow white, bordered with scarlet.

**77a. Double Flowered Mixed Poppies** (a)—Immense double flowers, resembling a Peony; two feet.

**78. M. & S. Shirley Poppies** (a)—A bed of these Poppies produces a gorgeous effect in the garden; large flowers with brilliant colors; mixed. Oz. 40c.

**78a. Iceland Poppy** (p)—These dwarf, bright yellow Poppies form one of the chief attractions of the garden through several months. They are most beautiful when grown in masses from seed sown every year; 1 foot.

**Yellow Tulip Poppy**—See Hunnemannia.

**79. Portulaca Single** (Mexican Rose)—Brilliant hardy annual, of easy culture; excellent for massing in beds, or rock work; thriving best in a light, sandy soil and a sunny situation; flowers of the brightest colors. Oz. 75c.

**80. Portulaca Double** (a)—Pkt. 10c; oz. \$2.00.

**80a. Primula (P).** Hardy primroses are among the most prized of our Spring blooming plants, 1 to 1½ feet high. Mixed colors.

**80b. Primula Obconia**—Used for greenhouse; very finest mixture. Pkt. 30c and 60c.

**80c. Primula Chinensis (Chinese Primrose)**—Very finest mixture. Pkt. 30c and 60c.

**80d. Pyrethrum** (p)—Handsome hardy perennial plants for the herbaceous border; flowers showy and excellent for cutting.

**80e. Erodium** (a)—Very beautiful; delicate looking; everlasting. Much prized for Winter bouquets. Red and white and both colors mixed.



Petunias

## Petunias

The Petunia is without a peer among annuals for effective Summer bedding or indoor culture. It is of easy culture, early to blossom and continues throughout the Summer until the first killing frost. No other flower produces greater diversity of color, retaining its freshness for so long a period.

**81. M. & S. PETUNIA MAMMOTH.** (a) Very fine, all colors mixed. Oz. \$1.50.

**82. Snowball**—Pure white; oz. \$1.75.

**82a. Rosy Morn**—Pink; oz. \$2.50.

**83. Howard's Star Petunia**—A beautiful variety; produces a profusion of crimson-maroon flowers, each having a distinctive five-pointed white star. Single. Oz. \$3.50.

**83a. M. & S. De Luxe Bedding Petunia**—Embracing only large flowering, gorgeous colored varieties. Oz. \$2.50.

**83b. Balcony Petunias**—A splendid free flowering type for window or porch boxes, vases, etc.; also valuable for bedding, giving a display of flowers throughout the entire summer, until frost; the flowers are large, averaging 3 inches across.

**Blue**—Rich Indigo blue.

**Crimson**—Rich velvety crimson.

**Rose**—Brilliant rose pink.

**White**—Pure white.

**Mixed Colors.**

**All of the Above**—Pkt. 15c; Large pkt. 50c.

**84. Phlox Drummondii** (a)—Easily grown from seed; makes a brilliant display as a Summer bedding plant. White, pink, crimson-white striped, pink with white eye, purple white striped, yellow-white with pink eye, rose-white striped, or all colors mixed. When ordering, mention color wanted. Oz. \$1.50.

**85. Phlox Hardy** (p)—For a gorgeous show these are the most satisfactory of all perennial plants. 2 to 3 feet high in all bright colors; seed sown late in Fall will germinate in the Spring. Mixed colors only. Oz. \$3.00.

ALL FLOWER SEEDS POSTPAID

## Ricinus (a) (Castor Oil Bean)

One of our best ornament-leaved annual plants, largely used for the center beds, being splendidly effective grouped with cannae, Caladiums and other tall plants.

86. New *Ricinus* or *Castor Oil Plant* "Red Spire"—The shapely bushy plants attain a height of about 6 feet, with pretty palmate leaves of a bronzy green with prominent red ribs and veins, and producing through the summer and autumn numerous spikes of flowers or seed pods 9 to 18 inches long, of a brilliant rosy crimson; altogether a most effective semi-tropical plant, valuable alike for its foliage and flowers, and like other *Ricinus*, absolutely insect-proof. As single specimens or in beds on the lawn, for filling up a corner, or making a hedge or line, this is one of the most ornamental plants ever introduced. Per pkt. 15c; 40c. per oz.

87. M. & S. *Ricinus* Mixture—Appreciating fully the splendid effects that a fine array of these desirable foliage plants will make in your garden, we have composed a mixture that for elegant blending is unsurpassed. Oz. 20c.

88. *Zanzibariensis*—Enormous leaves, varying in color from light green to purplish red. 12 feet. Oz. 25c.

89. *Sanguinea*—Plants attain great dimensions—12 to 14 feet. Leaves a beautiful blood red. Oz. 25c.

89a. *Rudbeckia-Newmani* (p)—One of the finest of autumn-flowering perennials, bearing large flowers. Bright orange-yellow petals surrounding a large black cone.

### SALVIA (a) (SCARLET SAGE)

90. *Salvia Splendens*—This popular bedding plant is impossible to be replaced. There is nothing more effective in the Fall or mid-Summer than these bright scarlet flowers. Seed should be started either in the house from February till April or in hotbeds. Best bedder, beautiful scarlet flowers of immense size. Oz. \$2.00.

91. *Salvia Bonfire*—Compact bushy plants; two feet high, producing innumerable erect spikes of the most brilliant scarlet flowers. Height, 2½ to 3 feet. ¼ oz. 75c.

92. *Salpiglossis* (a) (Painted Tongue)—Very beautiful, hardy, annual plants, flowering freely from July to early Autumn. Rich soil should be provided, with plenty of space for plants to develop. Blue, rose, violet, red, purple, yellow, maroon and all colors mixed.

93. *Scabiosa* (a) (Sweet Scabiosa, Mourning Bride, Pin-Cushion Flower, Egyptian Rose, etc.)—Beautiful colored flowers, 2½ feet high; fine for cut flowers.

94. *Scarlet Runner* (a)—Ornamental and useful climbing beans. Oz. 10c.

95. *Sensitive Plant* (a) (*Mimosa*)—A curious and interesting half-hardy annual, with pinkish flowers; leaves close when touched; 1½ feet high.

95a. *Smilax*—A well-known greenhouse climber, with small dark-green foliage; of great value in floral work. Oz. 60c.

95b. *Statice* (Sea Lavender) (p)—The statices are becoming more and more popular as gardeners realize the possibilities of these, not only as beautiful garden flowers, but also the keeping qualities, which make them a joy in a winter bouquet of everlasting flowers. We offer four colors: Blue, Rose, White and yellow. Special to introduce them: 1 pkg. of each, 30c.

*Snapdragon*—See *Antirrhinum*.

96. *Stock* (a)—Half-hardy annual; fine for cutting, bedding or edging, also pot culture; average 1 to 1½ feet. Mixed colors, White, pink, yellow, crimson, light blue, dark blue, separate colors.

96a. *Stokesia* (p) (Cornflower Aster)—Blooms all Summer. Large attractive flowers, resembling asters; fine for cut flowers: two feet high.

*Strawflower*—See *Helichrysum*

97. *Sweet William* (p) (Dianthus Barbus)—This is one of the finest of our hardy garden plants; of easy culture, thriving in any good garden soil and lasting for years. The plants grow about 1½ feet high, and form fine clumps; produces fine effects in beds and shrubbery. Single crimson, single with white eye, single velvet; maroon, single white and choicest double; mixed, single mixed; all colors. Oz. 75c

97a. *Sweet Sultan* (a) (*Centaurea Moschata*)—Hardy annual; flowers resemble "Bachelor's Buttons," fragrant flower on long stems.

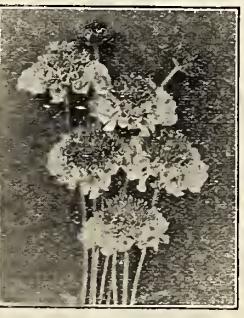
97b. *Sweet Rocket* (*Hesperis*) (p)—Excellent for naturalizing among shrubbery or for planting in a permanent border. Fragrant white and purple flowers; 2 to 3 feet. Mixed.



Salpiglossis



No. 98—Sweet Sultan.



Scabiosa

## Sunflower (a)

### 98 THE UNIQUE RED SUNFLOWER



Unique  
Red  
Sunflower.

Of recent introduction. The plants reach a height of from 5 to 8 ft. and throw out many branches. Flowers are very numerous, of good form, usually having large long rays and small discs. Heads vary greatly in size—some are only 2 or 3 ins. across, while others are a foot or more. The color diversifies greatly, some plants produce flowers of rich chestnut red, others red flowers tipped with yellow, others washed with red. This variety in size and color makes a hedge or border interesting and attractive. Some few seeds will produce plants bearing yellow flowers; for, although the seeds came from carefully selected stock, they were grown in a region where sunflowers abound and the wild, doubtless, have crossed some with pollen from the wild flowers. The plants likely to produce yellow flowers have no purple in stem or leaf and can be destroyed when seedlings. Oz. 50c.

99a. Single Sunflower (a)—Dwarf. Single Sunflower (See *Heliopsis*). (p).

99. Double Sunflower (a)—Dwarf chrysanthemum-flowering; very attractive. Oz. 40c.

100. Sunflower (a) (Large Russian)—Six to eight feet high; immense flowers. Oz. 10c.

101. *Thunbergia* (a) (Black-Eyed Susan)—Beautiful. Very ornamental climber.

101a. *Tritoma* (p)—Pfitzneri. Pkt. 25c.

102. *Verbena* (a)—Dwarf bedding plants for a gorgeous display during the Summer months cannot be excelled, commencing to flower in July and continuing until frost. Our Mammoth Fancy Strain cannot be surpassed for profusion of bloom and beautiful colors and shades. M. & S. Fancy White, Scarlet, Dark Blue, Light Blue, Scarlet-White Eye, Pink-White Eye, Violet-White Eye and all colors mixed. When ordering state color wanted. Oz. \$1.50.

103. *Vinca* (a) (Madagascar Periwinkle)—Dwarf bedding plants with deep green glossy foliage and bright single blossoms of striking beauty; sow early.

103a. *Violet* (p)—Deservedly much in demand because of their profusion of bloom and delicate odor. Purple Queen and finest mixed.

103b. *Veronica-Longiflora* (p)—Blue flowers; two feet high, August to October.

104. *WALLFLOWER* (p) Favorite sweet-scented flowers of fine colors. Splendid for cutting and useful as Spring bedders.

Early Feltham—Fine brown, dwarf.

Cloth of Gold—Yellow.

Vulcan—Dark blood-red; all colors mixed. State color wanted. Oz. 40c.

Creamy White — Oz. 40c.

Wallflower — All colors mixed. Oz. 40c.

105. *Wild Flower Garden* (a)—Fine mixture of old favorites. Oz. 15c.

All Pkt. of Seed 10c each unless otherwise noted.

## 106. CHINESE WOOLFLOWER (Celosia Childsi)

This is a unique form of the feathered Cockcomb, growing 2 to 3 feet high, by a much branched stem terminating in a large head of flowers that look as if made out of some silky wool material, and which is nicely shown in our illustration. Not only effective in beds or borders, but highly interesting and valuable for cutting, as they can be dried, and retain their bright color for weeks. We offer three colors and mixed. Dark Pink, very rich color. Canary yellow, pure white and mixed. 10c each.

All Flower Seeds, 10c pkt. unless otherwise specified.

## M. & S. GIANT DAHLIA - FLOWERED ZINNIAS

All Flower Seed Postpaid.

This splendid new and distinct race is without a doubt the greatest improvement in Zinnias yet developed and will greatly increase the popularity of this flower. The plants are of strong, vigorous habit, from  $2\frac{1}{2}$  to 3 feet high, and produce mammoth flowers 4 to 6 inches across and  $2\frac{1}{2}$  to 3 inches deep. The broad petals are closely imbricated, sometimes seeming to be piled one upon the other, the flowers so closely resembling decorative Dahlias, that when placed by their side, it is difficult to distinguish one from the other.

The Zinnia is one of the most brilliant, showy and satisfactory of annuals, and has long been a general favorite. The seed can be sown early in the hotbed or light window and transplanted or sown later in the open ground. They come into flower early in the summer and keep on blooming until hard frost. The varieties offered are the most important kinds.

**107. Crimson Monarch**—By far the largest and best of the red shades; plants very vigorous.

**108. Dream**—A fine, deep lavender turning to purple, a new, desirable shade in Zinnias.

**109. Exquisite**—One of the most pleasing in the collection; truly Dahlia-flowered as regards form and size; color, light rose, with deep rose centre.

**110. Golden State**—A very rich orange yellow; yellow in the bud, turning to an attractive orange when in full bloom.

**110a. Purple Prince**—A fine, deep purple, large and well formed.

**111. Oriole**—One of the most beautiful of its class; an immense orange and gold bi-color, changing slightly as it ages, but at all times worthy of the beautiful bird for which it was named.

**112. Polar Bear**—A very large pure white; the best white yet seen in Zinnias.

Price the above seven varieties 20c per pkt.; large pkt. 35c each.

Collection—One large pkt. each of above seven separate varieties for \$2.00.

**113. Mixed Colors**—A well blended mixture, covering a wide range of colors and shades. Oz. \$2.00; pkt. 10c and 25c.

### SPECIAL OFFER

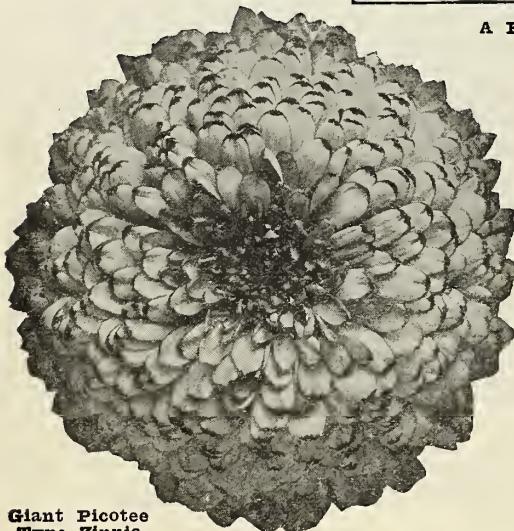
Due to the popularity and the success with which Zinnia Seeds are grown into beautiful plants, we are offering seven 20c pkts. (all seven above varieties) in separate colors, each pkt. wrapped separately, for \$1.00, sent postpaid.



Giant Dahlia-Flowered Zinnia.



A Field of Giant Dahlia Flowered Zinnias.



Giant Picotee Type Zinnia.

**118. Canary Yellow.** Pkt. 10c; oz. 75c.

**119. Dark Scarlet.** Pkt. 10c; oz. 75c.

Collection of a packet of the above 6 colors, 50c.

**120. Giant Flowering Dwarf**—Mixed. All colors. Pkt. 10c; oz. 50c.

**121. Giant Flowering Tall**—Mixed.. All colors. Pkt. 10c; oz. 50c.

**122. M. & S. Victory Zinnia**—This is a new introduction of Zinnia, forming quillie petals. Choice mixed including all beautiful and several new colors. Pkt. 10c; oz. \$1.00.

**123. Curled and Crested Zinnia**—The petals of this beautiful strain are twisted, curled and crested into the most fantastic and graceful forms. The colors comprise all the brilliant shades characteristic of the Zinnia. Pkt. 10c; oz. 75c.

**124. M. & S. Picotee Type Zinnia**—We offer for the first time this exquisite new Zinnia. The flowers which are not quite as large as the double giants, are very effective in appearance, as the edges of the petals are all well marked with a distinct color to the body of the flower, making them very attractive as bedders and cut flowers. Pkt. 10c; oz. \$1.00.

### 3 Years of Pleasure for \$1.00

Everyone who reads it likes The Country Gentleman—and more than 1,500,000 people buy it every month. Dad enjoys its radio features, its helpful farm suggestions; mother welcomes its complete women's department (with patterns at 10c); the children rush for the pages made especially for them; the whole family revels in its outdoor stories by such favorite authors as Zane Grey, Courtney Ryley Cooper, Joseph C. Lincoln, Grace S. Richmond.

To insure prompt service—the cost for three years is only \$1.00—mail us your personal and gift subscriptions for THE COUNTRY GENTLEMAN

## M. & S. SPENCER, or ORCHID SWEET PEAS

Plant Sweet Peas  
in fall 6 inches deep.



Spencer Sweet Pea.

All Sweet Peas  
Postpaid.

Inoculate Sweet Peas, to insure success. Use Mulford's Culture, Farmo-germ or Humogerm. For particulars, see page 29.

Nothing within recent years can approach in importance the introduction of the "Spencer" Sweet Peas. They are distinguished from the Grandiflora sorts by the enormous flowers with crinkled and wavy petals, and also from the fact that they usually bear four blossoms on a stem. The plants are of robust growth and bear flowers on long stems.

- 125. Constance Hinton—Best White.
- 126. Blanche Ferry—Pink and White.
- 127. Mrs. Routzahn—Apricot and Straw Color.
- 128. Wedgwood—Blue.
- 129. Primrose Spencer—Pink.
- 130. Hercules—Pure Pink.
- 131. King Edward—Pure Red.
- 132. Margaret Atlee—Rosy Buff.
- 133. Blue Picotee—White Blue Edge.
- 134. Masterpiece—Lavender.
- 135. Othello Spencer—Deep Maroon.
- 136. Florence Nightingale—Bluish-Lavender.

Price on all the above—Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50.  
137. Crimson King—Unquestionably the finest self-colored Crimson Sweet Pea ever introduced. The strong growing vines produce freely the very long stemmed sprays of four fine large blossoms. The color is a solid rich deep crimson.

## IRIS GERMANICA (German Iris)

For Parcel Post, add 5c per plant, 25c per dozen.

Nothing in the floral kingdom can equal the variety of color found in the new Germanica Hybrid Iris. They are both hardy and permanent, increasing every year at least twofold. Plant shallow, give gypsum or bone but avoid fresh manure.

The first color stands for Standards. The second for Falls.

### EXHIBITION VARIETIES

- Camelot—White. Fringed Lavender. 50c.
- Cecil Minturn—Pale Lavender with Violet through center. Yellow. 75c.
- Dawn—Light Sulphur Yellow, bronze veined at throat. Orange. 50c.
- Empress of India—Light blush Violet with a silvery sheen. Yellow. \$1.00.
- Lent A. Williamson—Bright Lobelia Blue. Velvety Pansy Violet. 75c.
- Isoleine—Silver Lilac. Purplish Old Rose. 50c.
- Juniata—Clear Violet. 50c.
- Prosper Laugier—Bronze. Red Crimson. 50c.
- Quaker Lady—Violet. Yellow. 50c.

### POPULAR VARIETIES

- Alcazar—Mauve-bronze. Purple. 35c.
- Albert Victor—Violet. 25c.
- Amas—Light Blue. Deep Purple Violet. 35c.
- Caprice—Rosy Red. 25c.
- Celeste—Pale Violet. 25c.
- Dalila—Lavender. Purple. 35c.
- Dalmarius—Cattleya. Rose. 25c.
- Fairy—White. Suffused Blue. 25c.
- Florentine Alba—Pearl White. 25c.
- Glory of Reading—Deep-blue. Royal Purple. Yellow. 35c.
- Iris King—Gold. Maroon. 35c.

### WE LOVE TO HEAR FROM PLEASED GARDENERS

Geo. Tracey, gardener for Mr. F. N. Iglehart, tells us that our Named Spencer Sweet Peas are the finest he has ever seen.

138. Youth—An exceptionally large and fragrant Sweet Pea. The color is white edged in a beautiful manner with a delicate soft rose pink. The plant is robust in growth and bears four blossomed sprays in great profusion.

Prices on both varieties: Pkt. 25c; oz. 50c;  $\frac{1}{4}$  lb. \$1.50.

M. & S. SUPERB SPENCER MIXTURE—A mixture that cannot be surpassed. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50.

## M. & S. Gilt Edge Sweet Pea Mixture

This superb mixture is blended by us with extraordinary care from named varieties of the most improved large flowering type, including recent American and European novelties, as well as a great many new hybrids, as yet unnamed, insuring gorgeous color effect. Oz. 15c;  $\frac{1}{4}$  lb. 30c;  $\frac{1}{2}$  lb. 50c; lb. 90c.

## M. & S. Winter Flower Spencer Sweet Peas

For indoor forcing. This seed has been grown from original stock and can be depended upon for excellent results.

139. Snow Flake—Large and of the best waved Spencer form. The pure white flowers are borne in wonderful profusion on long stems.

140. Early Harmony—Clear lavender throughout; of large size and well waved.

141. Early Red Cross—Fine scarlet.

142. Columbia—Pink standard, white wings.

143. Yarrawa—A pleasing shade of bright rose pink with lighter wings.

144. Hercules—Giant rose pink.

145. Early Meadow Lark—Large early cream.

146. Glitters—The sensational orange scarlet, very bright.

146a. Zoolanecks Rose—A very large and wavy, rich rose pink.

All the above, 10c per pkt.;  $\frac{1}{2}$  oz. 30c; 1 oz. 60c.

### HARDY SWEET PEAS

53. *Lathyrus Latifolius* (Perennial Sweet Pea)—Showy hardy climber, fine for covering walls and stumps. Free flowering. Pink, red, white, pearl, and mixed colors. Pkt. 10c; oz. 60c.



M-S

### JAPANESE SIBERIAN AND DWARF IRIS

Siberian—White. 25c.

Siberian—Blue. 25c.

Tamerlane—Magnificent Deep Purple. Violet. 35c.

Tectorum (Japanese) — Purple. 25c.

Violacea Grandiflora—Ama-

thus Violet. 25c.

Mixed Japanese—25c.

Dwarf—White, Blue, Gray

and Yellow. 25c.

Japanese Iris.

**M. & S. SUPERFINE GLADIOLUS**OUR BULBS ARE  
 $1\frac{1}{2}$  INS. AND UP.

If to be sent by Parcel Post, add postage at 25c per 100. Single bulbs and dozens we deliver free in U. S.

**Culture**—what a wonderful stride the Gladiolus has made during recent years. Its popularity today is exceeded by few other flowers, and it has by no means reached its limit. And there are good reasons for this popularity. Failure with it has never been known. Gladiolus will grow in any open position, where there is a fair amount of sun, and bloom well. They are not only showy in the garden, but, when cut with the first flower open will last for 10 days in the house. The newer colorings defy the choicest orchids. Plant bulbs 3 to 4 inches deep, 6 inches apart and stake when 2 feet high. Flowers appear from early July until late in the fall.

**Golden Measure (Exhibition Variety)**—Fine golden yellow; very large flowers. 25c each;  
\$2.50 doz.

**Mrs. Fred C. Peters (Exhibition Variety)**—Gorgeously light blue with deeper markings, many flowers open on long stems. 25c each; \$2.50 doz.

**Persia (Exhibition Variety)**—Shiny, velvety dark maroon, almost black. 25c each;  
\$2.50 doz.

**Anna Eberius**—A deep rich purple; very unusual and particularly attractive. 15c each;  
\$1.40 doz.; \$9.00 100.

**Byron L. Smith**—A fine lavender with pure yellow markings. 15c each; \$1.40 doz.;  
\$9.00 per 100.

**Crimson Glow**—A splendid dark red. 15c each; \$1.40 doz.; \$9.00 100.

**Louise**—Exquisite shade of clear lavender, growing brighter toward the center. 15c each;  
\$1.40 doz.; \$9.00 100.

**L'Immaculée**—Pure white, long spikes with many flowers open at one time; very early. 15c each; \$1.40 doz.; \$9.00 100.

**Virginia**—Wide open flowers of a bright, cheery Christmas Red. 15c each; \$1.40 doz.; \$9.00 100.

**War**—Deep blood red. Very tall and conspicuous. A fine late variety. 15c each;  
\$1.40 doz.; \$9.00 100.

**Alice Tiplady**—Large flowers of beautiful orange saffron color. Early. 10c each;  
\$1.00 doz.; \$7.00 100.

**Evelyn Kirtland**—Beautiful shade rosy-pink, darker at the edges, with brilliant scarlet blotches on lower petals. Tall spike, extra form and color. 10c each;  
\$1.00 doz.; \$7.00 100.

**Herada**—Blooms of immense size on tall, straight spikes; the color is pure mauve, glistening and clear with deeper marking in throat. An unusual color and very effective as a cut flower. 10c each; \$1.00 doz.; \$7.00 100.

**Mrs. Dr. Norton**—Very large flowers well set on a tall and graceful spike with 4 to 8 flowers in bloom at one time. Color, white with edges of petals suffused with soft La France pink; a very choice variety. 10c each; \$1.00 doz.; \$7.00 100.

**Niagara**—Delightful cream shade. The throat is splashed with carmine, also the lower end of petals. Large flowers on good spikes. 10c each; \$1.00 dozen; \$7.00 100.

**Prince of Wales**—Large flowers of salmon pink; very early blooming. 10c each;  
\$1.00 doz.; \$7.00 100.

**Wilbrink**—Pale vivid pink with creamy blotch on lower petal; very early and a fine cutflower. 10c each; \$1.00 doz.; \$7.00 100.

**America**—Delicate lavender-pink; flower large size. Very popular. 6c each;  
60c doz.; \$4.00 100.

**Le Marechal Foch**—Beautiful shade of light pink, flowers very large; one of the earliest. 6c each; 60c doz.; \$4.00 100.

**Mrs. Francis King**—Light scarlet, lower petals splashed deeper red. Tall spikes; very popular. 6c each; 60c doz.; \$4.00 100.

**Mrs. Frank Pendleton, Jr.**—The color is a delicately flushed salmon pink extending to the reverse side of the petal. The blooms are wide open and are arranged individually on very wiry stems. Each flower is doubly enhanced by a rich maroon blotch on the three lower petals. 6c each; 60c doz.; \$4.00 100.

**Panama**—Beautiful pink. Distinctive and popular. 6c each; 60c doz.; \$4.00 100.

**Peace**—Flowers are large of good form, correctly placed on heavy straight spike. Beautiful white with lilac feathering on lower petals. 6c each; 60c doz.; \$4.00 100.

**Rose Pearl**—Large flower of very pale pink, nearly white; very early. An attractive variety. 6c each; 60c doz.; \$4.00 100.

**Schwaben**—Delicate pale yellow, dark blotch in center. Very popular. 6c each; 60c doz.; \$4.00 100.

**M. & S. Giant Flowering Mixed Gladiolus**, composed of all named varieties in gorgeous blending. 5c each; 50c doz.; \$3.50 100.

**M. & S. Superfine Canna Bulbs**

greatest effect to adorn the surroundings. It is difficult to convey in language an idea of the beauty of the Canna plant and flower.

**Culture**—Canna tubers should not be put into the ground until the soil has become warm. They commence blooming in June and continue until late in September. Every shoot bears a flower and these shoots are being constantly produced throughout the blooming season.

**Note**—Our prices are for dormant roots in strong divisions of two and three eyes. After May 1st our stock of roots is usually sold, at which time we can fill orders with plants of some varieties.

**Apricot**—We consider this canna of unusual merit and especially valuable. Has healthy bright green foliage growing about four feet. Color mixture of buff and salmon.

**Eureka**—The best white variety; free bloomer; green foliage. 4 feet.

**Florence Vaughan**—Yellow, spotted crimson; green foliage. 5 feet.

**Gladioflora**—Has unusual shape resembling a Gladiolus. Color crimson changing to carmine rose and edged with gold; green foliage. 3 feet.

**King Humbert**—Truly a king among the Cannas, its majestic growth is doubly enhanced by a massive coppery scarlet flower and the broad deep bronze foliage. It grows 4 feet high and is splendid either as a center, edged with a dwarf yellow canna, or vice versa, placing it around a center of a tall yellow variety.

**Mrs. A. F. Conard**—Gigantic flowers which are borne in immense clusters. Salmon pink, a shade which becomes more brilliant as the flower develops. Foliage light-green. 4 feet.

**Richard Wallace**—Light yellow; green foliage. 4½ feet.

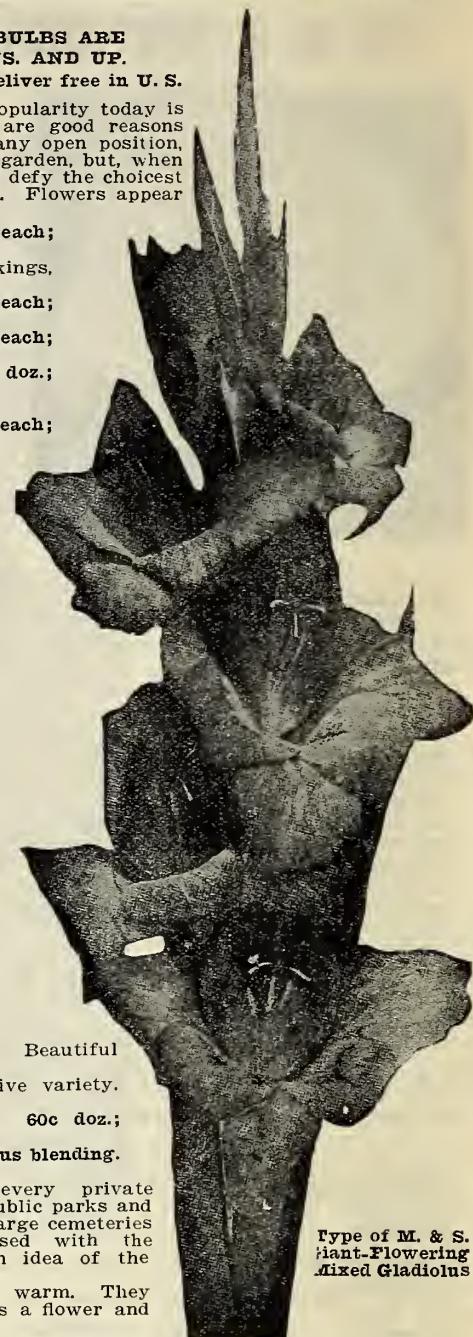
**The President**—This splendid new variety produces immense flowers of a rich, glowing scarlet; green foliage. 3½ feet.

**Wyoming**—Orange chrome red; bronze foliage. 6½ feet.

**Yellow King Humbert**—This is a sport of the well-known bronze-leaved variety, but this has green foliage. Has masses of golden yellow flowers, dotted red. 4½ feet.

All Varieties: 15c each; \$1.50 doz.

All Above Varieties not labeled, 10c each; \$1.00 doz., all postpaid.



Type of M. & S.  
Giant-Flowering  
Mixed Gladiolus



Cannas.

# M. & S. SUPERB SURE-BLOOMING DAHLIAS

If to be sent by parcel post, add 5c to each root or 25c per dozen. Varieties marked (o) postpaid.

## Novelties and Varieties of Special Merit

Spade or plow the ground to a depth of about 10 inches. As a fertilizer, use sheep manure and quick-acting bone meal, which should be well mixed with the soil. When the soil is properly prepared, dig a hole 6 inches deep, in which to plant the Dahlias. The bulbs should be laid down flat and covered to a depth of 4 inches. Every Dahlia should have from 2½ to 3 feet space and at least 4 feet between the rows.

As soon as the plants are a foot above the ground they should be tied to a stake.

Keep the ground well cultivated and free from weeds. An application of sheep manure about every two weeks will be of great benefit.

Never leave more than one shoot to a plant. You will have better plants and larger flowers if you will allow only one main shoot to a plant.

Orders for Varieties marked (o) will be filled in rotation, and will not be ready for delivery before April 15th.

## Decorative Dahlias

**AMUN RA** (o)—Large blossom on fine stem. A gorgeous shading of copper, orange and gold, deepening in the centre to a reddish bronze. \$1.00.

**CARMENCITA** (o)—A dwarf grower but always a mass of bloom. Yellow striped red. \$1.00.

**CHAMPAGNE** (o)—This was one of the rare novelties of last season; size large, color fine-dull champagne, varying to chamois. Large massive stem. \$1.50.

**COPPER KING** (o)—Immense coppery colored bloom, a most unusual shade, fine stems. \$3.00.

**ELLINEOR VANDEVEER** (o)—Jessie Seal's wonderful new pink seedling, magnificent deep rose pink. \$2.50.

**ELSIE DANIELS** (o)—Pale violet orchid shade blending to white in center, a beautiful combination. \$2.50.

**EMPEROR** (o)—This is a rare novelty and much in demand—fine stem. Deep maroon purple—a rare color. \$1.00.

**ELDORADO** (o)—An immense blossom of pure gold—a color much in demand. This dahlia stands well out of the foliage on strong, erect stems. One of the best grown. \$2.50.

**ELLEN KELLEY**—Golden yellow. 35c each; \$3.50 doz.

**F. A. WALKER**—Pink. 25c each; \$2.50 doz.

**GRIZZLEY** (o)—A dark red monster and without doubt one of the best in its class. \$1.00.

**JUDGE MAREAN** (o)—A gigantic flower of perfect type. Beautiful color combination—glowing salmon pink, with a touch of watermelon red, exquisitely blending to iridescent orange, yellow and pure gold. Constant bloomer. 75c.

**JERSEYS BEACON**—Another of Mr. Waite's wonderful creations. A decided novelty of merit. Chinese scarlet, with paler reverse. \$2.50.

**JERSEY'S BEAUTY** (o)—This is certainly a beauty and should be in every garden on account of its wonderful color and stem—in a class by itself—a beautiful pink. \$1.50.

**J. W. DAVIES** (o)—A very large, deep flower with a perfect stem. Beautiful color combination—deep shade of cerise at center, graduating to a lighter tint. Free bloomer. \$2.00.

**KITTY DUNLAP** (o)—American Beauty Rose, large and free bloomer, fine stems. \$1.00.

**LITTLE JEWEL** (o)—This is one of the daintiest flowers grown and for table decoration cannot be surpassed. A most beautiful pink. This is the only decorative of this type and rarely goes over two inches. A distinct novelty. \$1.75.

**MRS. CARL SALBACH** (o)—A beautiful large bloom of lavender pink. One of the best—always seen on the exhibition table. Massive stem. 75c.

**MRS. I. DE VER WARNER** (o)—The queen of the garden—a most charming color of deep mauve pink. True type and very fine form on wonderful stem. This dahlia is in a class by itself. \$1.00.

**MRS. ELEANOR MARTIN** (o)—The color of this wonderful dahlia is best described as mulberry, petals peculiar rose with reverse of violet. Nothing like it in color. \$2.00.

**MRS. E. P. JUDD** (o)—Carmine and rose suffused with cream. Immense flowers. \$2.00.

**MRS. JNO. T. SCHEEPERS** (o)—A wonderful variety. Large flowers, on long, stout stems, clear canary yellow which gradually changes to a beautiful shade of pink suffusion. \$1.00.

**MARGARET WOODROW WILSON** (o)—A large decorative with broad petals well placed, terminating in points. Opalescent pink. Flowers are held well out of the dark green foliage on perfect stems. Awarded certificate of merit by the Dahlia Society of New Jersey 1925. \$4.00.

**MYRA VALENTINE** (o)—Golden bronze, or a distinct copper color. Very large bloom on fine long stem. \$1.00.

**MR. CROWLEY** (o)—The exquisite color of this dahlia is most remarkable—a glowing shade of salmon pink—base of petals yellow. Medium size flowers. \$1.00.

**NAZARENO** (o)—A new seedling originated by W. F. Jost. In color it is a true purple-rare in dahlias. Large blooms on fine stems. \$4.00.

**ORA DOW**—Maroon and white. 25c each; \$2.50 doz.

**PAUL MICHELL** (o)—An immense pure yellow—a sensational bloom. Good for exhibiting. 75c.

**PRIDE OF CALIFORNIA** (o)—One of the best reds—large flowers on good stems—always popular. 75c.

**PIMLICO** (Decorative) (o)—A new seedling originated by Mr. Earle P. Loller. The color of this beautiful dahlia is chamois, blending to light gamboge yellow, suffused with pink on the outer petals. Fine green foliage and a hearty and robust grower. Blooms will average ten inches and are held erect on fine stiff stems high above the foliage. This flower was very much admired at the Baltimore Dahlia Society Show of 1927, as well as other places where it was exhibited. Stock limited. \$10.00.

**POP STEWART** (o)—A remarkable flower of great size. In the young state the flowers appear rosy pink, but as they mature undergo a complete transformation, toning out into a most exquisite shade of the purest lilac pink. Best of stems. Scored 90 points at Trial Gardens of New Jersey. \$2.50.

**ROSA NELL** (o)—This is worth growing in every garden. Color a clear bright-rose. The enormous blooms are always full to the centre and held erect on long stems. \$1.00.

**ROMAN EAGLE** (o)—Large exhibition decorative, of a flaming, brilliant, burnished copper color. One of the most admired dahlias at the recent large

Hybrid-Cactus Dahlia.

shows. A variety of real merit. \$2.00.

**SNOWDIFT** (o)—This giant white deserves its name. A full, deep built flower with broad, waxy petals. \$1.00.

**THE GIANTESS** (o)—This is another in the large bloom class and will always be found on the exhibition table. A wonderful color of amber; fine stems. \$2.00.

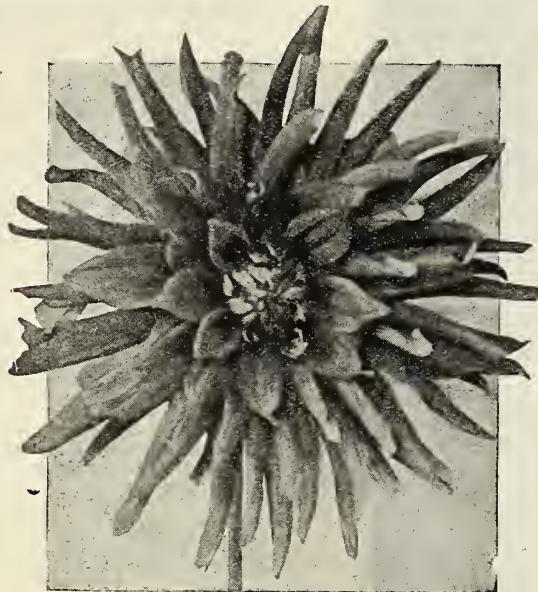
**TRENTONIAN** (o)—A giant decorative that appeals to all. The color is that of an Indian's skin, a wonderful blending of old gold, amber and coppery bronze. Petals are broad and well placed. Highly recommended for garden or exhibition. \$2.50.

**ZEUS** (o)—This is indeed a wonderful novelty—it is nothing to cut 10-inch blossoms from a bush of this variety. Medium height plant, and a very free bloomer. Glowing shade of red, with each petal distinctly tipped yellow. \$2.50.

Use Semesan on Dahlia Tubers to prevent disease and insure vigorous growth.

## ESPECIALLY BENEFICIAL TO DAHLIAS

**WIZARD BRAND SHEEP MANURE**—Apply 1,000 lbs. per acre. For garden, lawn or greenhouse use. This is where you get a whole cart load of manure in a 100-lb. bag at a much lower figure. 2 lbs. 15c; 5 lbs. 30c; 10 lbs. 50c; 25 lbs. \$1.00; 50 lbs. \$1.75; 100 lbs. \$3.00; 500 lbs. \$13.50; 1,000 lbs. \$25.00; per ton, \$47.50.

**Cactus and Hybrid-Cactus Dahlias****EUREKA**—Purple. 25c each; \$2.50 doz.**EARL OF PEMBROKE**—Plum. 25c each; \$2.50 doz.**FARNCOTT (o)**—A new creation introduced by Prof. Fraser of Connecticut. This must be seen to be appreciated. Color is pure purple, tipped white. A very fine stem and good keeper. \$2.00.**GLADYS SHERWOOD (o)**—A beautiful large white, with long petals that resemble white satin ribbons. 75c.**KING SOLOMON (o)**—**Hybrid Cactus**—A beautiful orange buff hybrid, with an iridescent sheen on the twirled and twisted petals, forming an exceptionally beautiful dahlia. Has been awarded many prizes. A distinct novelty of merit. \$3.50.**KOH-I-NOOR**—**Hybrid Cactus (o)**—Maroon, and at times so dark as to be almost black. Petals rolled closely and run to a point. Blooms are large and deep and have a velvety sheen that add greatly to their beauty. \$1.50.**LIBELLE**—Rose purple. 25c each; \$2.50 doz.**MARIPOSA (o)**—A perfectly formed Hybrid Cactus, composed of long, narrow incurved petals, which turn and twist in a charming manner; color a beautiful pink shade, produced on long, stiff stems. \$1.00.**MISS AMERICA**—**Hybrid Cactus (o)**—One of the best new novelties. Rich orange buff, blending towards center lemon chrome. Petals are wavy, twisted and curled, colored on reverse side, light jasper red. Very large with good keeping qualities. \$2.50.**MRS. JNO. GARDNER**—**Hybrid Cactus (o)**—A large bi-colored dahlia. Brilliant, blood-red petals, tipped white. \$1.00.

Cactus Dahlia.

**Peony Dahlias****MRS. M. W. CROWELL**—Orange yellow. 35c each; \$3.50 doz.**MRS. BOWEN TUFTS**—Rose purple. 35c each; \$3.50 doz.**MRS. VAN BYSTEIN**—Rosy lilac. 35c each; \$3.50 doz.**Ball or Show Dahlias****A. D. LIVONI**—Pink. 25c each; 2.50 doz.**ARABELLA**—Yellow and pink. 25c each; \$2.50 doz.**AMERICAN BEAUTY**—Crimson. 35c each; \$3.50 doz.**GLOBE DE NANTES**—Scarlet. 25c each; \$2.50 doz.**MISS HELEN HOLLIS**—Fiery red. 35c each; \$3.50 doz.**MAUD ADAMS (o)**—The best in its class. White, faintly tinged with lavender pink. 50c.**ROBERT BROOMFIELD**—White. 25c each; \$2.50 doz.**RED HUSSAR**—Red. 25c each; \$2.50 doz.

Should you wish any of the recent prize winning varieties—we have them—and can supply them in plants. If you have any variety in mind that you would like to add to your present collection it would be advisable that you consult us before sending out of town, as we have a direct connection with one of the largest growers of exhibition stock.

**STORM KING**—White. 25c each; \$2.50 doz.**VIVIAN**—This is another novelty worth growing—white heavily overlaid crushed strawberry. A good bloomer. 25c each; \$2.50. doz.**Single Varieties Dahlias****AUBREIGHT BEAUTY**—White. 25c each; \$2.50 doz.**ECKFORD CENTURY**—White dotted purple. 25c each; \$2.50 dozen.**ROSE-PINK CENTURY**—Pink. 25c each; \$2.50 doz.

For postage add 5c each or 25c dozen.

**Pompon Dahlias****AMBER QUEEN**—Clear amber. 35c each; \$3.00 doz.

Mixed—35c each; \$3.00 doz.

**Fancy-Leaved Caladiums**

Most attractive Ornamental Foliage Plants of easy culture. Will do well out of doors in the open as well as in pots in a half-shaded exposure, with plenty moisture and rich humus containing soil. Also as house plant or for conservatories, or in window boxes between ferns or small palms they give a very beautiful effect.

The following five standard varieties will give utmost satisfaction and are selected by specialist for our particular trade.



Fancy Leaved Caladium

**Eclatant**—Deep carmine, center changing to blood red, large leaves of strong growth. Very striking hybrid.**Osceola**—Bright rose pink, center running outwardly into beautiful blotches on silvery whitish ground. An excellent grower.**Orinoco**—Light pink, transparent center with bright scarlet ribs. A most showy hybrid and fine grower.**Snowshower**—Pure white field, veined glossy bright green, extremely showy and most attractive variety and a splendid grower.**Sunset**—Straw yellow ground with coral red and olive green blotches. A fine variety and good grower.

Price on all varieties 25c each; \$2.50 dozen, postpaid.



Caladium (Elephant Ear)

**Begonias**

## (Tuberous Rooted)

Enormous wax-like flowers appear uninterruptedly from June until frost. Start indoors in March, and transfer outdoors about May 1st.

A most charming plant with beautiful foliage. We are offering single and double. Colors red, white, yellow, pink, salmon and mixed colors. Price 25c each; \$2.50 per dozen, postpaid.

**Box Collection of Dahlias**

Put up in sets of 8 assorted varieties, unlabeled, embracing a wide range of colors, red, white, pink, yellow, variegated, etc. This collection is sent through Parcel Post to any part of the United States for \$1.00, postpaid.

## M. & S. Everblooming ("Monthly") Roses

Every lover of roses should have a copy of "The Rose in America." Everything in detail about the American rose and from the American point of view. Price, \$3.00, postpaid.

After much thought and experimenting we have decided to materially cut our list of roses, and have chosen the following list of popular and deserving varieties of which we have a good supply of true to name stock. All two year old in dormant condition, well burlaped and labelled at 75c each; postpaid, 85c each—\$8.50 per doz.; postpaid, \$8.75.

**MME. EDOUARD HERRIOT**—Gorgeous combination of reddish-terra cotta and bronze, flame shadings.

**MRS. AARON WARD**—Bud beautiful rich yellow, which changes to shades of pink as flowers develop.

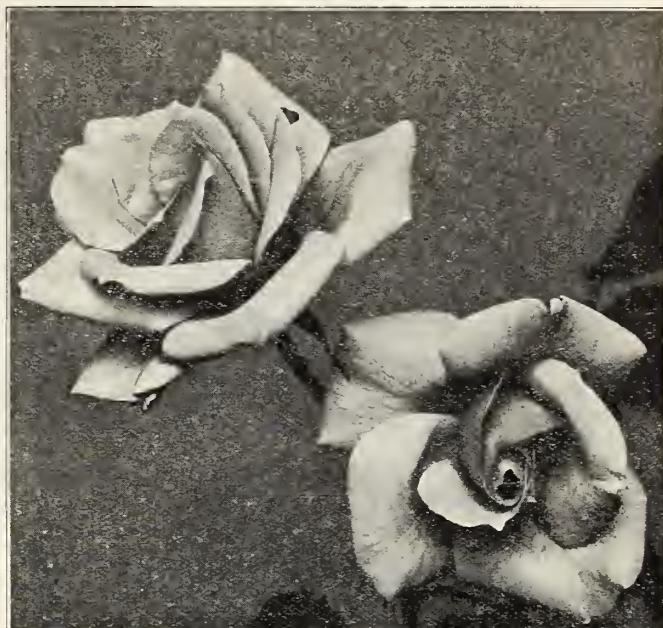
**KAI SERINE AUGUSTE VIKTORIA**—Creamy-white, immense substance, petals smooth and nicely arranged. Very popular.

**LOS ANGELES**—Luminous flame-pink toned with coral, lighter shadings at the base, buds long and pointed, expanding to a flower of mammoth proportions.

**MME. BUTTERFLY**—Much superior to Ophelia, its parent. Harmony of bright pink, apricot and gold.

**OPHELIA**—Clear, bright salmon, often deepening toward golden-pink.

Use Semesan Spray for Brown Canker, Black Spot and Mildew  
1 lb. \$1.75.



Lady Ashtown.

**MISS CYNTHIA FORDE**—Bright rose-pink with lighter pink reflex, and with a distinct line of yet lighter pink on the edges of the pointed petals. Sweetly scented blooms and very durable.

**ETOILE DE FRANCE**—A grand deep red rose which blooms all summer. Flowers are large, full velvety-crimson and richly fragrant.

For prices, see above.

### TO GET THE UTMOST FROM YOUR ROSE BEDS

Rose beds that bloom freely are large consumers of plant food. Unless the fertility of the soil is replenished periodically and systematically, your roses will not do as well as they might. Very convenient articles to use are Wizard Brand Cow and Sheep Manure, Springfield Rose Food, Pure Bone, Raw Bone, Bone Flour, Sulphate of Potash, Blood Meal, Gypsum or Land Plaster, etc. All the mentioned articles are listed on our Plant Food page in this catalogue.



Etoile De France.

**WILLOWMERE**—Coral-red color, suffused with carmine in the bud state, opens rich shrimp-pink, shaded yellow in the centre and flushed carmine-pink towards edges of petals.

**HADLEY**—Deep velvety-crimson.

**FRAU KARL DRUSCHKI**—Best snow-white rose ever introduced. Immense in size and produced with great freedom. Hybrid perpetual.

**LADY ASHTOWN**—Pale rose, shading to yellow at base of petals.

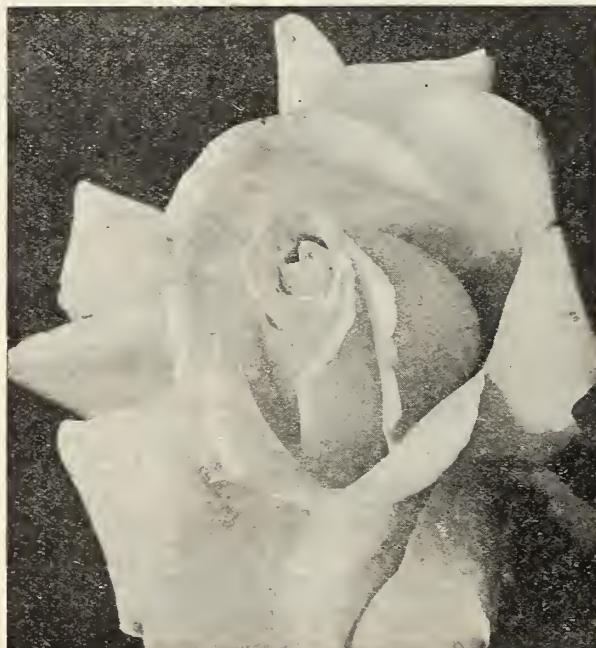
**COLUMBIA**—Deservedly one of the most popular among rose-pink varieties. Immense flowers are slightly tinged with yellow at base of petals. Long, strong stems. Flowers, of great substance and fine lasting qualities, possess delightful fragrance.

**RADIANCE**—One of the most gorgeous American sorts as yet introduced. The large, finely formed flowers are silvery-pink and very brilliant. Free bloomer and sturdy grower.

**RED RADIANCE**—A clear red form of the popular Radiance Rose.

**SOUV. DE CLAUDIO PERNET**—Another season's reports from all sections see this peerless rose emerge triumphantly as the most dependable golden-yellow garden rose of today. It is equally charming in bud, or while opening, and after fully blooming. The plants grow freely, and produce flowers liberally.

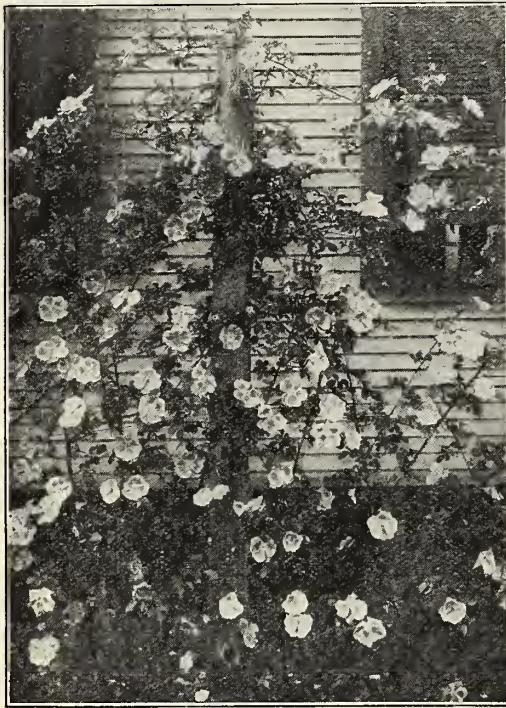
**DUCHESS OF WELLINGTON**—Enormous tapering buds of golden-orange, slowly opening to very large saffron-colored flowers; sweetly scented; of great size and substance.



Frau Karl Druschki.

## M. & S. Hardy Climbing Roses

**CLIMBING AMERICAN BEAUTY**—Of the same color and fragrance as the popular variety whose name it bears. It is a wonderfully free bloomer and an exquisite variety. An early bloomer, flowers being borne either singly or in clusters of three. Of fine form and fragrance.



Silver Moon.

Winner of many highest awards.

**SILVER MOON**—Its buds are exquisite in form and color, and its many semi-double flowers are very pretty and decorative, opening a soft nankeen yellow and quickly changing to pure silvery white; are four inches or more in diameter and slightly perfumed.

**EXCELSA (Red Dorothy Perkins)**—Brilliant crimson. Has the vigor and profuse bloom of the Dorothy Perkins, and its double flowers of good size are borne in clusters of thirty to forty each. An improved Crimson Rambler.

**CRIMSON RAMBLER**—Deep crimson.

**MARY WALLACE**—Flowers of bright clear rose-pink with salmon base to the petals.

**YELLOW RAMBLER**—Flowers are deep golden-yellow and very fragrant.

We have eliminated quite a lot of Climbing Roses, which we used to list, and have decided on the above eight as being most satisfactory and reliable sorts, and are offering same in two year old dormant plants at 75c each; postpaid, 85c each.

## Hardy Hedges

**NEW RED BARBERRY**—Rich, lustrous, bronzy red foliage, changing in fall to vivid orange, scarlet and red. Similar to green leaved variety but more brilliant and effective. All that is required to develop its brilliant coloring at all seasons is that it be planted in full exposure to the sun. 75c each; 6 for \$4.00; 12 for \$7.50; postpaid, 85c, \$4.25, \$8.00, respectively.

**JAPAN BARBERRY**—Valuable as specimen plants or for hedges. Drooping yellow flowers followed by bright red berries. Foliage changes to fiery crimson in autumn. 12 to 18 inches, 25c each; 3 for 72c; 12 for \$2.40, postpaid; \$12.00 per 100 not postpaid. 18 to 24 inches, 35c each; 3 for \$1.00; \$3.50 per dozen, postpaid; \$20.00 per 100 not postpaid.

**CALIFORNIA PRIVET**—Cheaper than fences, far more beautiful. The most popular ornamental hedge plant. (25 and 50 at 100 rate.) Hedge plants are set 6 inches apart, viz.: a 50-foot hedge requires 100 plants. 12 to 18 inches, 75c per doz., postpaid; \$4.00 per 100; \$30.00 per 1,000, not postpaid. 18 to 24 inches, \$1.00 per doz. postpaid; \$6.00 per 100; \$40.00 per 1,000, not postpaid. 24 to 36 inches, \$1.25 per doz., postpaid; \$8.00 per 100; \$60 per 1,000, not postpaid.

## Hardy Garden Plants HARDY PERENNIALS

**LONG SPURRED COLUMBINE (Aquilegia)**—Hardy. Graceful flowers, freely produced on long stems. We offer an extra fine long spurred strain. Yellow, Blue and Mixed. 25c each; \$2.50 per dozen.

**DOUBLE HOLLYHOCKS**—Hardy. Straight towering spikes a mass of waxy flowers. Select from colors: White, maroon, pink, red and yellow. 25c each; \$2 per dozen. Postpaid.

**DELPHINIUM (Gold Medal Hybrids)**—Hardy. The most attractive bold and meritorious flower we have. The immense spikes of brilliant shades of blue produce the most striking effect in the flower garden. 25c each; \$2.50 per dozen.

**DELPHINIUM (Bella Mosa)**—Dark Blue. 25c each; \$2.50 per dozen.

**SHASTA DAISY**—Hardy. Pure white with gold center, petals very long and center soft and velvety. 25c each; \$2.50 per dozen.

**HARDY ORIENTAL POPPY**—Enormous large flaming red flowers. Striking. 30c each; \$3.00 per dozen, postpaid.

**GAILLARDIA (Blanket Flower) Grandiflora**—12 to 18 inches. Flowers have red centers, with rings of crimson, maroon, orange or vermillion and are tipped with orange or lemon. 25c each; \$2.00 per dozen.

### M. & S. CHOICEST PEONIES—All Postpaid

Duchess de Nemours,				
Sulphur White	...\$27.50 per 100	\$4.00 per Doz.	\$ .40 Each	
Edulis Superba,				
Mauve Pink .....	27.50 per 100	4.00 per Doz.	.40 Each	
Felix, Crousse, Ruby				
Red .....	45.00 per 100	6.00 per Doz.	.60 Each	
Festiva Maxima,				
pure white .....	27.50 per 100	4.00 per Doz.	.40 Each	
Umbellata Rosea, Vio-				
let Rose Shading..	45.00 per 100	6.00 per Doz.	.60 Each	
<b>Special Offer</b> —One of each of the above, \$2.00.				

**CHINESE LANTERN PLANT (Physalis franchetii)**—An ornamental variety of the Winter Cherry, forming dense bushes, about 2 feet high, producing freely its bright orange scarlet lantern-like fruits; highly interesting. The most useful of all the everlasting. For Hallowe'en, Thanksgiving and Christmas decorations. 25c each; \$2.50 per dozen, postpaid.

**TRITOMA (Red Hot Poker Plant)**. Pfitzeri—Blooms freely, from August to October, with spikes 3 to 4 feet high of a rich orange-scarlet. Hardy with protection. Each, 25c; doz., \$2.00.

**HONEY LOCUST HEDGE**—Plant 1 to 2 ft. apart. Where an impenetrable hedge is desired. Has fine primate light green foliage, turning yellow in fall, blooms white in early summer, makes large flat ornamental pods, and has large thorns. 75c per dozen, postpaid; larger plants, \$1.50 per dozen, not postpaid.

## Hardy Garden Phlox

Flower heads often measure from 7 to 9 inches across, borne from early summer until frost. They grow vigorously—increasing in size from year to year, and make very attractive plantings along walks or in clusters. Price, any of following varieties, 35c each; 3 for \$1.00; \$3.60 per dozen.

**SUNSET**—Dark rosy-pink.

**LOTHAIR**—Bright crimson.

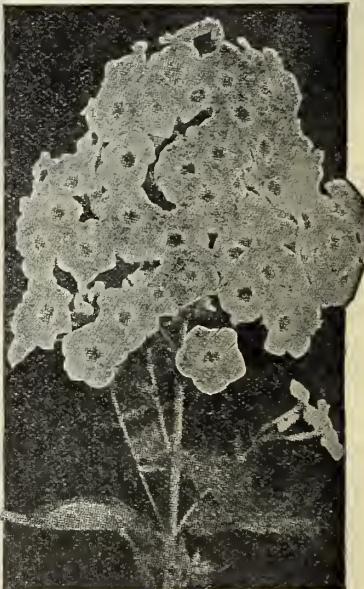
**MISS LINGARD**—Earliest white, pale pink eye.

**MRS. CHARLES DOOR**. A beautiful shade of lavender.

**WIZARD BRAND SHEEP MANURE**—Apply 1,000 lbs. per acre. For garden, lawn or greenhouse use. This is where you get a whole cart load of manure in a 100-lb. bag at a much lower figure. 2 lbs. 15c; 5 lbs. 30c; 10 lbs. 50c; 25 lbs. \$1.00; 50 lbs. \$1.75; 100 lbs. \$3.00; 500 lbs. \$13.50; 1,000 lbs. \$25.00; per ton, \$47.50.

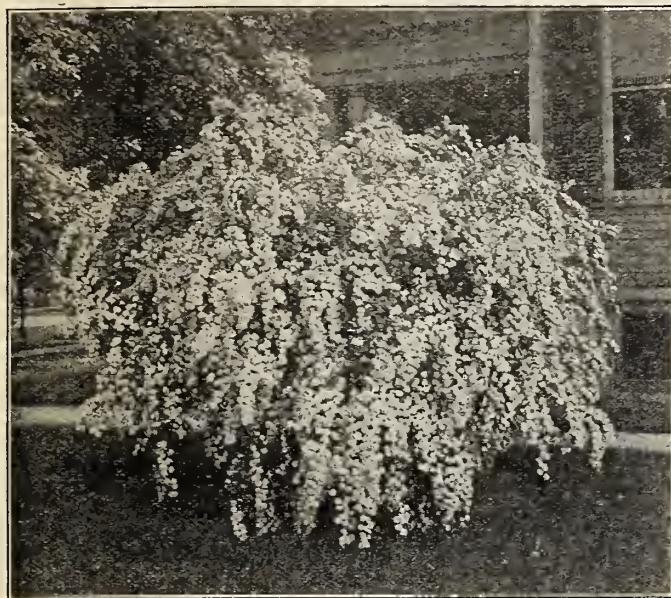
**WIZARD BRAND COW or CATTLE MANURE**—

Convenient to handle, making it possible for everyone to get this usually scarce article at all times. This is where you get a wagon load of manure in a 100-lb. bag. 2 lbs. 15c; 5 lbs. 30c; 10 lbs. 50c; 25 lbs. \$1.00; 50 lbs. \$2.00; 100 lbs. \$3.50; 500 lbs. \$16.25; 1,000 lbs. \$30.00; per ton, \$55.00.



Hardy Phlox.

There is nothing better for the garden than the two above items.



The Most Popular Shrub in the World—Spirea Van Houttei.

## Popular Hardy Shrubs

**ABELIA GRANDIFLORA**—White, heather-like flowers, tinted lilac. 60c; postpaid, 70c.

**ALTHEA**—Double red. Strong plants, 60c; postpaid, 70c.

**ALTHEA**—Pure white, double. Strong plants, 60c; postpaid, 70c.

**ALTHEA**—Double pink; extra fine. Strong plants, 60c each; postpaid, 70c.

**BECHTEL'S FLOWERING CRAB**—Large, double, fragrant, clear pink flowers. \$1.50; postpaid, \$1.60.

**BRIDAL WREATH (Spirea Van Houttei)**—Beautiful foliage at all times and a fountain of arching snow-white blooms during May and June. Very popular. 2 to 3 ft., 30c; 40c postpaid. 3 to 4 ft., 50c; 60c postpaid.

**BUDDLEIA or Butterfly Shrub—Magnifica**—The long, graceful and exquisitely fragrant spikes of flowers as illustrated alongside are of a pleasing, rich violet-rose and are produced in profusion from early June until late autumn. **Splendid large plants, 40c; postpaid, 50c. Extra large, \$1.00.**

**COMMON SNOWBALL BUSH**—An old-time favorite. Pure white flowers in dense clusters which look like balls of snow; very attractive. **Large plants, 50c; postpaid, 60c.**

**CREPE MYRTLE**—Bloom in profusion during the late summer. **Pink. 4 to 5 ft., \$2.00.**

**DEUTZIA PRIDE OF ROCHESTER**—White, double flowers. **Prices: 2 to 3 ft., 50c each; 60c postpaid.**

**GOLDEN BILLS (Forsythia Fortunei)**—The first shrub to bloom in the spring, the pendant golden bells appearing before the leaves. **2 to 3 ft., 50c; postpaid, 60.**

**HYDRANGEA PANICULATA**—Height from 4 to 8 feet; perfectly hardy in all parts of the country. White flowers, turning to pink, borne on immense pyramidal panicles nearly a foot in length from July until November. **Price, strong plants, 2 to 3 ft., 60c; 70c postpaid.**

**HYDRANGEA ARBORESCENS**—Blossoms large, pure snow-white. Blooms from early in June through August. **2 to 3 ft., 60c; postpaid, 70c.**

**HYDRANGEA PANICULATA**—Tree form. **\$1.50.**

**JAPANESE SNOWBALL**—75c; postpaid, 85c.

**LILAC, PURPLE**—An old-time favorite that will always remain popular. Flowers fragrant. **2 to 3 ft., 50c each; 60c postpaid.**

**LILAC, WHITE**—Identical with the purple variety excepting that the flowers are white. **2 to 3 ft., 50c each; 60c postpaid.**

**MOCK ORANGE (Philadelphus)**—An old favorite. Flowers cup-shaped, very fragrant, pure white. **40c each; postpaid, 50c.**

**PAUL'S SCARLET THORN**—Small tree of fine habit with rich foliage and very double deep crimson flowers with a scarlet glow. **\$2.00; postpaid, \$2.25.**

**PINK BUSH HONEYSUCKLE**—Beautiful pink blossoms. Very attractive. Blooms in May and June. **2 to 3 ft., 50c; postpaid, 60c.**

**SWEET-SCENTED SHRUB**—The flowers when fully open are about the size of a silver dollar, of a mahogany brown color. Strawberry-scented. Should be in every planting. **Price, \$1.00, not postpaid.**

**SPIREA ANTHONY WATERER**—Begins to bear flat clusters of rosy-red flowers early in spring and continues in bloom until late in autumn. **60c each; 3 for \$1.70.**

**WEIGELA ROSEA**—One of the most conspicuous shrubs that we cultivate; flowers pink, dwarf, adapted to lawns or gardens. **2 to 3 ft., 50c each; price postpaid, 60c.**

**WEIGELA EVA RATHKEE**—Flowers brilliant crimson, produced in great profusion. Very attractive. **2 to 3 ft., 50c each; postpaid, 60c.**

## Hardy Vines for Trellises, Etc.

**BOSTON IVY**—Most popular climbing plant for brick or stone walls, buildings, trees, fences, etc. Clings to smoothest surfaces. **Strong plants, 2 to 3 ft., 50c each; 60c postpaid.**

**SWEET-SCENTED CLEMATIS PANICULATA**—Most satisfactory climbing flowering plant, strong, rapid growth, dense, cheerful green foliage. Flowers in great profusion, creamy white color, very fragrant. **2-year, 50c; postpaid, 60c.**

**HARDY PURPLE WISTARIA**—Vigorous, strong-growing vine, lovely, rich violet-blue flowers, deliciously sweet. **2-year grafts, 75c; 85c postpaid.**

**CLEMATIS JACKMANII**—Popular rich purple variety of large flowering Clematis. **Price, 75c each; 85c postpaid.**

**HARDY JAPANESE KUDZU VINE (Pueraria Thunbergiana), "Jack and the Bean Stalk" Vine**—A vine that will grow anywhere in the best or poorest soil. Remarkable and rapid, often making a growth of 50 to 75 feet in one season. Fragrant purple flowers; invaluable for covering porches, etc. **Strong plants, 75c; postpaid, 85c.**

**DUTCHMAN'S PIPE VINE (Aristolochia Siphonophora)**—Singular brownish-color flowers, resembling in shape a pipe. Flowers little value however compared to light green leaves, which are very large and retain color from early spring to late fall. **2 to 3 ft. plants, 75c; 85c postpaid.**

**HONEYSUCKLE MONTHLY FRAGRANT**—Flowers pale purple outside, whitish beneath. **2-year plants, 50c; 60c postpaid.**

**MADERIA VINE**—Heart shaped leaves, feathery flowers, delicious fragrance. Here is what you want if a quick growth is desired. **Roots, 10c; 3 for 25c, postpaid.**

## Hardy Large Flowering Chrysanthemums

**OLD HOMESTEAD**—Salmon-pink.

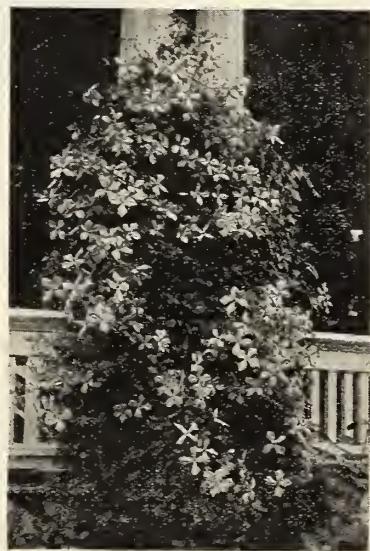
**SNOWCLAD**—White.

**BROWN BESSIE**—Butter type, bronze-red.

**ALICE HOWELL**—Orange-yellow.

Strong plants, that will bloom freely this year. **Each, 25c; dozen, \$2.50; postpaid, 30c and \$2.75, respectively.**

**SPECIAL OFFER**—To introduce our splendid Large-Flowering Hardy Chrysanthemums, we will send twelve plants, 3 of each for \$2.00; postpaid, \$2.25.

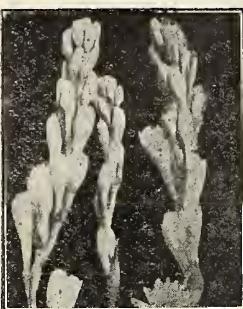


Clematis Jackmanii.

## WIZARD BRAND SHEEP MANURE

Apply 1,000 lbs. per acre. For garden, lawn or greenhouse use. This is where you get a whole cart load of manure in a 100-lb. bag at a much lower figure. **2 lbs. 15c; 5 lbs. 30c; 10 lbs. 50c; 25 lbs. \$1.00; 50 lbs. \$1.75; 100 lbs. \$3.00; 500 lbs. \$13.50; 1,000 lbs. \$25.00; per ton, \$47.50.**

## NURSERY DEPARTMENT



Tuberose

### Mammoth Size Double Pearl Tuberoses

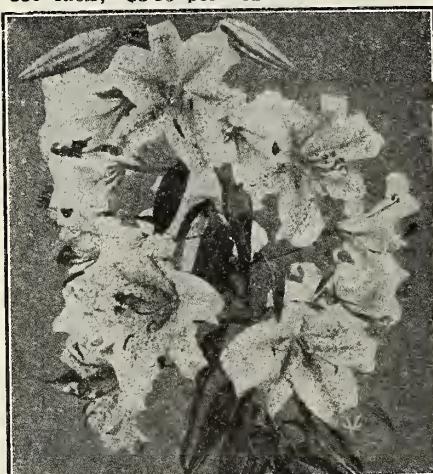
**Culture**—One of the most fragrant and popular of the summer flowering bulbs. May be started early in hotbeds or pots, or planted in open ground after first of May. The bulbs we offer are not to be compared with cheap ones—ours are sure bloomers. Soaking them over night in lukewarm water promotes rapid growth. 5c each; 50c dozen; \$3.25 per 100, postpaid (for postage add 5c each or 25c dozen).

### Hardy Japanese Garden Lilies

No garden should be without some of these Queens of Flowers. They are perfectly hardy and can be planted in the late fall or early spring. Very seldom they are ready for delivery before early part of December. Plant 6 to 8 inches deep, in sour soil, putting a little sand under the bulbs and dusting them with powdered sulphur and some lime, will insure success.

**AURATUM** (Goldbanded Lily)—Large, graceful flowers, composed of six petals of a delicate ivory-white, thickly studded with chocolate-crimson spots and striped through the center by a golden yellow band. 35c each; \$3.50 per dozen.

**HENRYI** (The Yellow Speciosum) — A new rare and very beautiful Lily from China. It is very hardy, a strong healthy grower, and without doubt one of the best Lilies for garden culture and most effective for massing. The flower stalks, 3 to 5 feet high, carry 5 to 8 large flowers each. the color, a rich apricot-yellow, lightly spotted with brown, and the shape and size of the flowers and the habit of growth has suggested the name "Yellow Speciosum." 50c ea.; \$5.00 per doz.



Japanese Lily, Auratum.

**SPECIOSUM ALBUM** — Large white flowers of great substance, with a greenish band running through the center of each petal. 50c each; \$5.00 per dozen.

**SPECIOSUM RUBRUM, or ROSEUM** — White, heavily spotted with rich, rosy-crimson spots. 50c each; \$5.00 per dozen.

**TIGRINUM SPLENDENS** (Improved Tiger Lily)—The grandest of the Tigers. Very large pyramids of flowers, orange red, spotted with black, 3 to 5 feet high. Blooms in August. 35c each; \$3.00 per dozen.

**TIGRINUM FLORA PLENA** (Double Tiger Lily)—Double bright orange-red flowers spotted with black. Blooms in August. 35c each; \$3.00 per dozen.

### Strawberries

**Extra Early Varieties**—Charles I and Premier.

**Second Early Varieties**—Senator Dunlap and Dr. Burill. **Medium Late Varieties**—Bun Special, Eaton, Gibson and Wm. Bell.

**Very Late Varieties**—Aroma, Brandywine and Pearl. Price on any of the above: 50c doz; 75c for 25; \$1.25 for 50; 100, \$1.75, all postpaid. 1,000, \$10.00 at our store or express collect at costumer's station.

**Everbearing Varieties**—Champion and Progressive. 75c doz; \$1.00 for 25; \$1.75 for 50; \$3.00 per 100, all postpaid. 1,000, \$17.50 at our store or express collect at costumer's station.

### Shade and Ornamental Trees

**Catalpa Bungei** (Umbrella Tree)—5 to 6 ft., \$4.00.

**Dog Wood (White)**—5 to 6 ft., \$3.50.

**Dog Wood (Red)**—2 to 3 ft., \$4.00.

**Elm, American**—8 to 10 ft., \$2.50.

**Maple, Norway**—8 to 10 ft., \$4.00.

**Maple, Red**—8 to 10 ft., \$4.00.

**Maple, Silver**—8 to 10 ft., \$2.50.

**Maple, Sugar**—8 to 10 ft., \$3.50.

**Magnolia, Pink**—3 ft., \$3.50.  
**Oak, Pin**—8 to 10 ft., \$3.50.  
**Oriental Plane**—7 to 8 ft., \$1.75.  
**Peach, Double Flowering**—4 to 5 ft., \$2.00.  
**Poplar, Carolina and Lombardy**—8 to 10 ft. each, \$1.50.  
**Poplar, Tulip**—8 to 10 ft., \$3.00.  
**Sweet Gum**—8 to 10 ft., \$3.00.  
**Willow, Golden and Weeping**—8 to 10 ft., \$2.50.

### SELECTION OF M. & S. EVERGREENS

**Arborvitae American**, **Firs**, **Balsam** and **Nordmans**. **Junipers**, **Irish** and **Japanese**. **Pine**, **White**, **Scotch** and **Austrian**. **Retinosporas**, **Plumosa** and **Plumosa Aurea**. **Squarosa Veitchii**, **Spruce**, **Norway**, **Colorado Blue**. **Yew**, **Drupacea** and **Fortunis Boxwood**. Small trees from \$1.50 to \$2.50. Larger trees, price as to size and variety.

### Nut Trees

**Almonds, Hard and Soft Shell**—4 to 5 ft., \$1.50.  
**Walnut, American Black**—8 to 10 ft., \$2.50.  
**Walnut, Japan**—10 to 12 ft., \$3.50.

### Plums

**Abundance**—Amber, turning to cherry color. Ripens in Aug.  
**Burbank**—Orange-yellow, overlaid with red.  
**Green Gage**—Yellowish-green, small fruit.  
**Extra Strong Trees**, 75c each.

### Gooseberries, Blackberries, and Currants

**Gooseberries, Downing Green and Houghton Pale Red**—40c each; \$3.50 per dozen.

**CULTIVATED BLACKBERRIES**—Popular varieties, 25c each; \$2.00 dozen.

**Currants, Cherry, Bright Red, Fay's Prolific, Dark Red and Red Cross**, 40c each; \$3.50 per doz.

### Raspberries

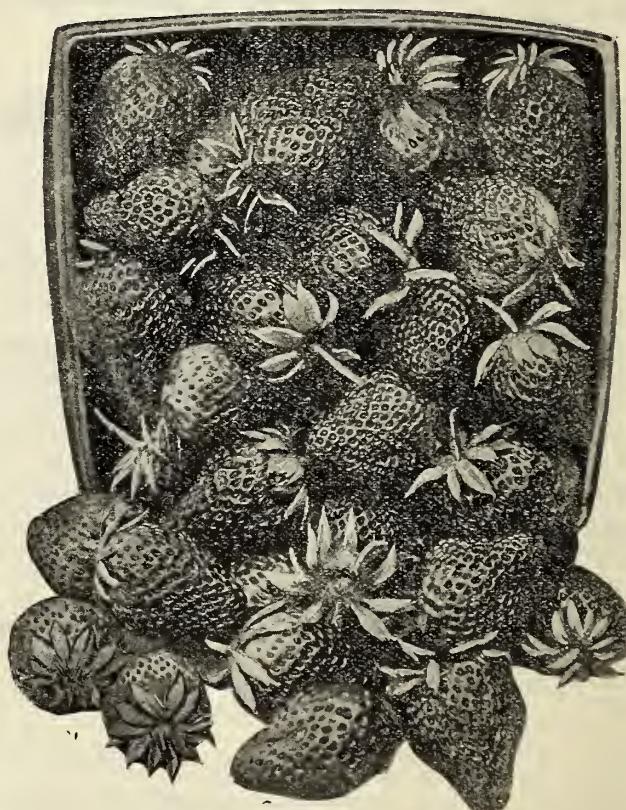
#### (Extra Strong Plants)

Raspberries should be carefully staked to get large crops. We recommend that well-rotted manure or other suitable fertilizer be dug around the bushes, either in the Fall or early Spring.

**Columbian**—Fruit very large, often an inch in diameter; color dark red, bordering on purple.

**St. Regis**—Everbearing Raspberries. They yield their first crop of berries in June (the regular season), and yields an equally heavy crop the latter part of August, and continues bearing right up to November.

The above—30c each; \$2.00 dozen.



Write for Prices on Larger Quantities.

We are now in position to estimate on and execute work like ornamental tree work, tree surgery, pruning, spraying for insects and fungi diseases, cavity treatment by filling with sectional cement, the treatment of split and weak crotches and limbs by bolting and chains, and cultural treatment.

Sent via Express or Freight Only.

### Grapes

**CACO (Red)**—This new red grape has the most delicious flavor and is of the highest quality of any grape that we have ever tested. It is one of the earliest grapes in ripening. It has a peculiar characteristic not common to other grapes in that, on account of its being so rich in sugar and excellent in flavor, it can be eaten with enjoyment fully two weeks in advance of its being fully ripe. In appearance, it is the most beautiful of hardy grapes, wine red in color with abundant bloom. The berries are unusually large, bunches of good size, compact and of good form. The vines are very strong, vigorous growers, hardy, healthy and prolific. This variety is a cross of the two well-known grapes, Catawba and Concord, and is said by expert grape growers to have all the good qualities of both these varieties without the defects of either. Ripens early in September.

**CATAWBA**—The standard red grape of eastern America. The vine is vigorous, hardy, and productive. Clusters large, long, and broad. Berries of medium size, dull purplish-red with thick bloom; firm.

**CONCORD**—Best known and most popular variety in America. It succeeds practically everywhere. Its large black berries are borne in large bunches and, being covered with a decided bloom, they are of most attractive appearance. Of good quality.

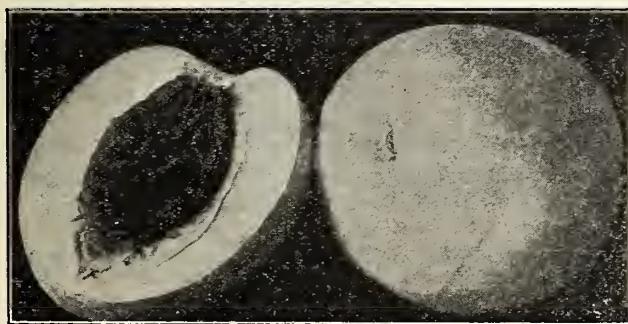
**NIAGARA**—The most popular white grape, and destined to become more highly valued as time passes. Cluster large and compact; berry large, amber white with white bloom, thin skinned, tender pulp, sweet and luscious. Ripens in mid-season with Concord.

Any of the above, 50c each. Two-year-old stock, \$5.00 doz.

**GRAPE PROTECTING BAGS**—See Page 64.

### Apricots, Nectarines, Peaches, and Quince

Trees such as we furnish will often bear the year after they have been set out.



**Crawford's Early**—Large, yellow with red cheek; flesh yellow, juicy, sweet and good. Middle of August.

**Elberta**—Mid-season. Fruit large. Yellow with deep red cheek. Best known and most largely grown peach.

**Late Crawford (Yellow, Freestone)**—A peach of high quality and richness in flavor that ought long to remain one of the treasures of the home garden. The trees are hardy, vigorous and healthy, but it had to give way as a commercial peach to Elberta because it lacks somewhat in productivity and is a little tardy in coming into bearing. Fruit large and very handsome, deep yellow blushed and splashed with dark red. Ripens here the last of September.

Extra Strong Trees, 5 to 6 feet high, 75c each; \$6.00 doz.

Apricots—4 to 5 feet, \$1.50.

Nectarines—5 to 6 feet, \$1.25.

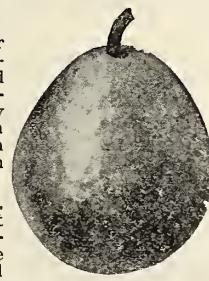
Quince—5 to 6 feet, \$1.50.

To HAVE FRUIT TREES IN PERFECT CONDITION, SPRAY 3 TO 4 TIMES EACH YEAR.

### Standard Pears

**Bartlett**—The most popular pear both for home use and market, a leader among canning pears, commands top prices. Should be in every garden and orchard. Large, golden yellow with reddish blush on the sunny side. Flesh tender, melting and juicy, with a delicious musky flavor. Tree vigorous, an erect grower, bears abundantly. Ripens in September.

**Seckel**—The small size and peculiar, rich, juicy flavor of this variety make it a most desirable variety for pickling and preserving. It is generally conceded to be the sweetest of all pears and is greatly prized as a dessert fruit to eat fresh out of the hand. Although small in size it is very attractive in appear-



ance, being of a russet-yellow color with a bright red cheek. It is very prolific. Every home orchard should have a tree or two of this excellent variety. In season in September and October.

The above extra strong trees, 5 to 6 feet high, \$1.00 each; \$10.00 doz.

### Apples

**McIntosh**—The fruit is very attractive in appearance, of bright deep red color, which in highly colored specimens is almost purplish-red overspread with a thin lilac bloom. Fruit above medium in size, with white, firm, very crisp flesh, fine-grained, tender, very juicy. Sprightly subacid in flavor with a characteristic perfume and aroma. The tree is rather a strong grower, very hardy and healthy.

**Baldwin**—Large, roundish; deep bright red; very productive; handsome fruit.

**Grimes' Golden (Grimes' Golden Pippin)**—Of the highest quality; deep golden yellow, aromatic, spicy and rich. Tree vigorous and productive.

**Rhode Island Greening**—Commonly called by the simple name of Greening. As a cooking apple it is unsurpassed, and as a dessert fruit of its season, has few equals. It is a good variety to grow with Baldwin in commercial orchards, because, being a little earlier in season, it can be picked and marketed before it is necessary to pick Baldwin. The fruit is large, yellowish-green, often with a dull blush.

**Northern Spy**—An old-time favorite with a distinct flavor that appeals to those who like a brisk spicy apple that is not actually sour. One of the leading commercial varieties. The fruit is large and attractive, being of bright red color, overspread with a delicate bloom. The flesh is very juicy, crisp, tender, and most excellent for either dessert or culinary purposes. An excellent keeper. It is too tender and juicy for evaporating. May be slow to come into bearing, but has been known to bear paying crops in seven years. Bears moderate to heavy crops, biennially, or almost annually. Being a late bloomer, it sometimes succeeds when others fail from late frost damage.

Any of the above in 5 to 6 ft. trees, \$1.00 each, \$10.00 dozen.

### Cherries

**Black Tartarian**—The favorite home garden sweet cherry. Best for table use. Produces immense crops of heart-shaped cherries, bright, glossy, purplish black. Flesh tender, juicy, rich, and of best quality. Ripens middle of June.

**Yellow Spanish**—We highly recommend this variety for the home garden on account of its earliness, beautiful appearance and delicious flavor. Ripens in June.

**Montmorency (Sour)**—The most largely planted of the sour varieties. Light red, very acid; popular for pie making.

No. 1 trees, \$1 each; \$10.00 doz.

### Garden Guide

A complete Handbook for the Amateur Gardener  
Fourth Edition  
384 pages and over 275 teaching illustrations with beautiful cover in four colors.

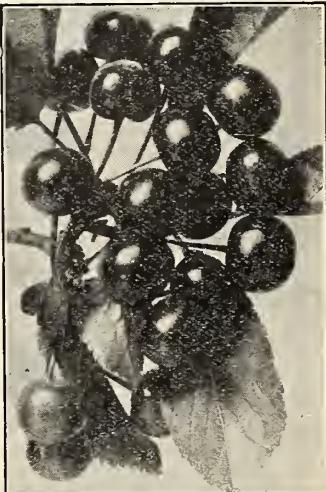
Covers every step from spading the ground to preserving the harvest.

Price, cloth bound, \$1.50; postpaid, \$1.65.

Paper bound, \$1.00; postpaid, \$1.10.

Books on Gardening, Fruit Growing, Landscaping, etc. Complete circular sent on request.

Do not neglect to feed the plants in your garden; fruit trees, berries, etc., as well. **WIZARD BRAND SHEEP MANURE** is the ideal food, and it will also add the much needed Humus to your soil.



Black Tartarian Cherries.

# CYANOGENS

REG. U.S. PAT. OFF.

## Cyanogas A—Dust

### For RATS and MICE:

Pump dust in open rat hole with Cyanogas duster. Plug all holes from which dust is seen to emerge. Continue pumping until reasonably sure that the dust has permeated the rat Warrens. Remove duster nozzle and block hole. Treat next open hole in same manner. Continue until all holes have been plugged.

### For WOODCHUCKS (GROUNDHOGS):

Place heaping tablespoonful of Cyanogas A-Dust in the burrow and close carefully.

### For MOLES:

Poke holes in mole runway at intervals of four or five feet with a pointed stick and pour about two teaspoonfuls of Cyanogas into the runway, closing the hole after. Cyanogas can also be pumped into the mole runway with a duster—this is the better method.

### For GARDEN ANTS:

Place a pinch of Cyanogas A-Dust in the opening of the ant nest sufficient to close. A pencil or pointed stick may be used to enlarge the opening.

### For CHICKEN MITES (in Chicken Houses):

Scatter material with sifter top can in nests, where mites breed. Chickens must be kept out of house for five or six hours while fumigant is at work. House must then be thoroughly ventilated before allowing chickens back in.

### For SPARROWS, STARLINGS and PIGEONS:

Dust roosting area with Cyanogas duster when birds are at roost.

### For ORCHARD DUSTING:

For control of rosy apple aphid and apple leafhopper. Mix Cyanogas A-Dust with an equal amount of sulphur dust and dust trees on calm warm days.

## FOR KILLING RODENT and INSECT PESTS

Cyanogas Calcium Cyanide is a slate-gray material that gives off hydrocyanic acid gas upon exposure to the air. This makes it extremely easy to apply. The gas is deadly to the rodent and insect pests and will kill them almost immediately. None can escape it. There is no danger to persons handling Cyanogas if reasonable care is used. Can be had in 1-lb., 5-lb. and 25-lb. tins; or in 100-lb. drums.

### ENCLOSED SPACE FUMIGATION:

For Fleas, Wax Moths, Bed Bugs, Clothes Moths and Cockroaches. Spread over floors on dry newspapers, one-eighth inch thick. Apply at rate of two pounds to each 1000 cubic feet of space. Allow fumigation to continue from 12 to 24 hours. Close house or building securely. Post warnings. Ventilate building thoroughly before entering after fumigation. Damp newspapers may be placed around the room, but not in contact with the dust to hasten liberation of the gas, if additional moisture is needed. Humans must not be permitted to enter any part of the building which is being fumigated. Cyanogas must not be used for fumigating except where the work is performed by or under the supervision of professional or licensed fumigators.

## Cyanogas G—Fumigant

### For GREENHOUSE FUMIGATION:

Send for special leaflet on "GREENHOUSE FUMIGATION WITH CYANOGENS." Unusually effective. Greenhousemen using Cyanogas report saving of from 75 to 90 per cent on their fumigating costs and 100 per cent kill of aphid. A five-pound tin will fumigate 520,000 cubic feet at a cost of \$3.00 plus a slight additional charge for express shipment. Sprinkle at rate of  $\frac{1}{4}$  ounce per 1000 cubic feet and close house for the night. Temperature 55 to 70 degrees F.

## Cyanogas Dusters

Two general types of Cyanogas Dusters for rodent control. Special hand duster for small infestations, and Foot Pump, small, for large infestations. Used especially for rats and moles.

Prices—**Special Hand Duster, \$1.40; Foot Pump, small, \$4.75.**

**PRICES OF CYANOGENS "A" and "G"**  
"A" and "G" Dust—1 lb. 75c; 5 lbs. \$3.00; 25 lbs. \$10.00;  
100 lbs. \$30.00.

**NOT MAILABLE**  
Give Freight or Express Station When Ordering.



making 60 times its volume when diluted with water.  $\frac{1}{2}$  pt., 75 cts.; pt., \$1.25; qt., \$2;  $\frac{1}{2}$  gal., \$3.50 gal., \$6.



For leaf-chewing insects—caterpillars, slug worms, Japanese beetles, etc., and blights. A powerful fertilizer, too. Use alternately with Fungtrogen. Both carry their own spreader.

4 oz. (sample) .....	\$0.60	Qt. ....	\$2.75
$\frac{1}{2}$ pt. ....	1.00	$\frac{1}{2}$ gal. ....	4.50
Pt. ....	1.75	Gal. ....	8.00



Spring-Summer Ground Dressing and Ground Stabilizer

A valuable plant-food. Reinforces manure fertilizers. Supplies essential chemical elements to the soil.

1-lb. tins.....	\$0.75	5-lb. tins.....	2.75
2-lb. tins.....	1.25	10-lb. tins.....	\$4.75

NOTE—A 10-lb. tin of Terogen or Ferogen is sufficient for one application for 30 to 50 rose bushes.

All these preparations are indorsed by leading rosarians and by us  
All these sprays are highly concentrated, making 60 times their volume when diluted with water.



Destroys the destructive aphid in two or three applications. For all plants subject to aphids or plant-lice. Carries the Rosenbluth leaf fertilizer. Splendid for house plants.  

2 ozs.....	\$0.50	1 lb. (pint) .....	\$2.25
$\frac{1}{2}$ lb. ( $\frac{1}{2}$ pt).....	1.25	2 lbs. (quart) .....	3.50
12 lbs. (1 $\frac{1}{2}$ gals.) .....	15.00		



Autumn-Winter Ground Dressing and  
Soil Disinfectant

Terogen destroys the spores of fungi of most diseases that have fallen to the ground, as well as the larvae of most insects, including the rose pith borers, rose bugs, aphids and most beetles. Terogen also acts as a valuable fertilizer. Makes sturdy, healthy foliage and prevents chlorosis (yellowing of the leaves). In convenient semi-powdered form.  

Pound .....	\$0.75	10 pounds .....	4.75
2 pounds .....	1.25	25-lb. drums.....	11.00
5 pounds .....	\$2.75	100-lb. drums.....	40.00

All Prices Subject to Change.

## READ THIS TABLE AND SELECT PROPER DUST TO BUY.

## INSECT DESTROYERS

All Prices Subject to Change.

Pest to Control	Dust to Use. Niagara Garden Police.	
	Flowers & Shrubs	Vegetables
Insects and worms which actually eat portions of the plant: beetles, worms, caterpillars, etc. External Chewing Insects.	No. 1 Entodust. 1 lb. 40c.	No. 1 Entodust. 1 lb. 40c.
Insects which suck out the plant juice: aphids (plant lice), plant flies. For fumigating greenhouses and conservatories. Sucking Insects.	No. 2 A-1 Dust. 1 lb. 60c.	No. 2 A-1 Dust. 1 lb. 60c.
Diseases: Many mildews, blights, fungus troubles, and to kill worms, caterpillars, beetles, chewing insects —(a combination dust).	No. 4 Pomodust. 1 lb. 35c; 5 lbs. \$1.25; 10 lbs. \$2.25	No. 3 D-6 Dust. 1 lb. 45c.
A good dust to use to keep up general good health, prevent disease and attacks of Insect Pests.	No. 4 Pomodust. 35c lb.	No. 5 D-20 Dust. 1 lb. 50c
		Niagara Hand Duster, \$1.25. Parcel Post, \$1.35
		Cyanogas Hand Duster—Very efficient all around duster, \$1.40; postpaid, \$1.50.
		Cyanogas Foot Pump, small, \$4.75.

**AGRI-PAX CONTACT INSECTICIDE**—Kills insects surely, economically. No foliage injury. Stainless. Non-poisonous. Spreads evenly, completely. Does not corrode. Does not settle or clog nozzle. Recommended by florists and market gardeners.  $\frac{1}{2}$  pint 40c; 1 pint 60c; 1 quart \$1.00; 1 gallon can \$3.50; 5 gallon pails, \$10.00. Special prices in large quantities.

**ARSENATE OF LEAD** (Sherwin Williams)—Direction for using in each package.  $\frac{1}{2}$  lb. 20c; 1 lb. 30c; 4 lbs. \$1.00; 100 lbs. \$20.00.

**ARSENATE OF CALCIUM**—1 lb. 30c; 4 lbs. \$1.00; 100 lbs. \$15.00.

**ARSENATE OF ZINC**—1 lb. 30c; 4 lbs. \$1.00; 100 lbs. \$22.00.

**ANT FOOD** (McGregors)—An amazing discovery for killing ants, cockroaches, wood lice, snails and certain other insects.  $\frac{1}{2}$ -lb. can 50c; 1-lb. can \$1.00; 5 lbs. \$4.75; 10 lbs. \$9.00; 25 lbs. \$21.85; 50 lbs. \$42.50; 100 lbs. \$80.00.

**ANSECT** (Rose Bug Destroyer)—Dilute one part in 30 parts of water. Do not spray in bright sunlight. Gal. \$6.00; qt. \$1.75.

**ATOMIC SULPHUR**—1 lb. 30c; 5 lbs. \$1.00; 10 lbs. \$1.75; 25 lbs. \$3.25; 50 lbs. \$5.00; 100 lbs. \$9.00.

**BEE BRAND INSECT POWDER**—Kills all kind of bugs. Can be used in garden and house, on poultry and animal, etc. **PIK**, 15c, 35c and 70c, postpaid; 5 lbs. \$3.00. Duster for same, 15c.

**BORDO FUNGI** (Same as Bordeaux Mixture) (Sherwin Williams)—Full direction with each package. 1 lb. 30c; 4 lbs. 80c; 100 lbs. \$15.00.

**BLACK FLAG INSECT POWDER**—Best for all kind of insect pest in house and garden; three sizes. 15c, 35c, 75c, postpaid.

**BLACK LEAF 40**—Per 1 oz. bottle 35c; \$1.25 per  $\frac{1}{2}$  lb.; 2 lbs. \$3.50; \$13.50 per 10 lbs.

**BUG DEATH**—Used on potatoes, cucumbers, squash and currants, powerful insecticide. Per lb. 20c; 3 lbs. 40c; 5 lbs. 60c; 12½ lbs. \$1.40; 100 lbs. \$9.00.

**FISH OIL SOAP**—35c per lb.; 5 lbs. \$1.25; 10 lbs. \$2.00.

**GRAPE DUST**—For mildew and blight. Per 5 lbs. 75c.

**DERRISOL, ODORLESS** (Non-Poisonous Contact Spray)—Use one teaspoonful to 1 gallon of water. Kills plant lice, flies, leaf hoppers, thrip and red spider. 1 oz. 35c;  $\frac{1}{2}$  lb. \$1.20; 1 lb. \$2.00; 2 lbs. \$3.00; 10 lbs. \$12.00.

**INSEKTO SPRAY** (A Concentrated Non-Poisonous Liquid Insecticide)—For use against garden, hothouse, orchard, farm and house insect pest. For general use mix 1½ teaspoonful to one gallon of water. 1 oz. 30c, makes 6 gal. of spray;  $\frac{1}{2}$  pt. \$1.75, makes 50 gal. of spray; 1 qt. \$6.00, makes 200 gal. of spray; 1 gal. \$22.00, makes 800 gal. of spray.

**HELLEBORE**—Per  $\frac{1}{4}$  lb. 25c; 40c per  $\frac{1}{2}$  lb.; 1 lb. 70c; \$3.00 per 5 lbs.

**KAYLOX**—Is an insecticide and fungicide combined in powder form, it mixes readily with water, is very effective against all leaf eating insects.

$\frac{1}{2}$  Pound ..... \$0.30 5 Pounds ..... \$2.50

1 Pound ..... .55 10 Pounds ..... 4.50

**KAYSO**—A combined casein spreader and adhesive to be added to spraying material. 2 lbs. 50c; 10 lbs. \$2.10; 50 lbs. \$9.50; 100 lbs. \$18.00.

**LEMON OIL INSECTICIDE**—Per  $\frac{1}{2}$  pt. 35c; 60c per pt.; qt. \$1.00; \$1.75 per  $\frac{1}{2}$  gal.; gal. \$3.00; \$12.00 per 5 gal.; 10 gal. \$22.50.

**MAG-O-TITE**—Protects crops against the ravages of the root maggot and other garden pests; also eradicates earth worms from lawns and putting greens. Not injurious in any way to plant life, but is a valuable stimulant and fertilizer. In powder form, ready for use. 1 lb. 50c; 5 lbs. \$1.50; 25 lbs. \$5.00; 50 lbs. \$9.00.

**LIME SULPHUR (Liquid)**—1 qt. 40c; 1 gal. \$1.00; 5 gals. \$3.00; 10 gals. \$5.00; 50 gals. \$12.00.

**DRY LIME SULPHUR** (Sherwin Williams)—Full directions with each package. 1 lb. 30c; 5 lbs. \$1.25; 10 lbs. \$2.55; 25 lbs. \$3.75; 50 lbs. \$6.50; 100 lbs. \$11.50; 200 lbs. \$20.00.

**NICO-FUME (Liquid)**— $\frac{1}{4}$  lb. 75c; \$2.00 per lb.; 4 lbs. \$7.00; 8 lbs. \$13.00.

**NICO-FUME TOBACCO PAPER**—Per box 24 sheets, \$1.25; \$5.25 per 144 sheets; 288 sheets, \$9.50.

**NICO-FUME TOBACCO POWDER**—1 lb. \$1.00; 5 lbs. \$4.00; 10 lbs. \$7.50.

**PARA DICHLOROBENZENE or CRYSTAL GAS**—Controls peach borers, use in June and September, 1 oz. to each tree. 1 lb. 50c; 5 lbs. \$2.00; 10 lbs. \$3.50; 25 lbs. \$7.50; 50 lbs. \$14.00.

**PARIS GREEN** (Sherwin Williams)—Per  $\frac{1}{4}$  lb. 15c; 1 lb. 40c; 2 lbs. 75c; 5 lbs. \$1.75; 14-lb. kits \$4.50. Price subject to change.

**PESTROY** (Sherwin Williams)—A combination spray for fruits and vegetables, a mixture of Arsenate of Lead and Bordeaux, very effective, full direction with each package.  $\frac{1}{2}$  lb. 25c; 1 lb. 40c; 4 lbs. \$1.25; 100 lbs. \$20.00.

**PYROX**—Kills bugs, prevents blights and rots, and improves foliage. Ideal for the home gardener and truck farmer. Use Pyrox especially for potatoes, other vegetables, small fruits and rose bushes. Treat seed corn with it, and it will keep crows, blackbirds, wire worms and ants and other pests away, also aids germination. Use 5 lbs. mixed with equal quantity of water to 1 bus. of corn. 1 pound makes 4 to 5 gallons of spray; 11 pounds will spray an acre of potatoes once. 1 pound jar 50c; 5 pound drum \$1.75; 10 pound drum \$3.00; 25 pound drum \$6.25; 50 pound pail \$10.75; 100 pound drum \$17.00; 300 pound barrel \$48.00.

**ROACH POWDER** (Germo)—Powerful and effective, eliminates roaches, waterbugs and other insect pest.  $\frac{1}{4}$  lb. 25c;  $\frac{1}{2}$  lb. 50c; postpaid, 30c and 60c.

**SCALECIDE**—Used for the destruction of the San Jose Scale. Dilute at the rate of one gallon Scalecide to 15 gallons water. Scalecide does not clog nozzles, hose or pump, and is pleasant to use. Spray during the winter or early spring when the trees are dormant. Qt. 75c; gal. \$1.75; 5 gals. \$6.25; 10 gals. \$10.60; 15 gals. \$13.50; 30 gals. \$26.00; 50 gals. \$38.00.

**SLUG SHOT** (A Non-Poisonous Powder)—Destroys most insects that infest plant life. 1 lb. 20c; 5 lbs. 50c.

**SULFOCID**—A better summer spray. A concentrated liquid sulfur fungicide. Controls scab, brown rot, blight, mildew and rust on vegetables and fruit. Dilute 1-200. 1 pt. 70c; 1 qt. \$1.00; 1 gal. \$2.75; 5 gals. \$8.75; 10 gals. \$15.00; 30 gals. \$39.00; 50 gals. \$60.00.

**SULPHURE** (Flowers)—Per lb. 15c; 5 lbs. 60c; 10 lbs. \$1.00; 25 lbs. \$2.25; 100 lbs. \$6.00.

**SULPHO TOBACCO SOAP**—Destroys insects on plants and animals. Pkt. 15c and 25c; 1 lb. 40c, postpaid.

**THANATUS**—For all soft-bodied insects.  $\frac{1}{2}$  pt. 35c; 1 pt. 60c; qt. \$1.00; gal. \$3.50.

**TOBACCO DUST** (Special Dusting or Fumigating)—10c per 1b.; 5 lbs. 30c; 20 lbs. \$1.00; 100 lbs. \$4.50.

**TOBACCO STEMS**—Per lb. 5c; 50 lbs. \$1.50; 100 lbs. \$2.50.

**TREE TANGLEFOOT**—Per lb. 60c; \$2.75 per 5-lb. can; 10 lbs. \$5.25; 25 lbs. \$11.00.

**TREE DRESSING FRAIMS**—For treating cavities, pruning, cuts, etc. 1 qt. \$1.00; 1 gal. \$3.00; 5 gal. \$14.75; 10 gal. \$29.00; 25 gal. \$70.00; 50 gal. \$137.50.

**VOLCK** is one of the most powerful insecticides known. Kills Aphids, Red Spider, Mealy Bug, Scale, Caterpillars and most all insects, and prevents mildew and rust. Volck does not burn; it is safe to use. Highly recommended to florists. Send for special circular. Price,  $\frac{1}{2}$  pt. 50c; 1 pt. 75c; 1 qt. \$1.00; 1 gal. \$3.00; 5 gal. \$12.50; 14 gal. \$25.00; 28 gal. \$40.00.

**VERMINE**—For eel, cut worms and wire worms, working in the soil. It can be applied to all vegetation.  $\frac{1}{2}$  pt. 40c; pt. 65c; qt. \$1.00; gal. \$3.00.

**WEED KILLER—SEE PAGE 50**

**WILSON'S O. K. PLANT SPRAY**—For 20 years the leading insecticide of America, for inside and outside spraying. For aphid, thrip, mealy bug, scale, rose bugs and many other insects.

Prices

$\frac{1}{2}$ pint	\$ .40
1 quart	1.00
1 gallon	3.00
5 gallons	12.00
10 gallons	20.00
25 gallons	50.00
50 gallons	90.00

Liquids and poison cannot be mailed.



# Fertilizers and Plant Foods

All prices on Fertilizers are subject to Market Changes.

**ADCO**—Don't waste garden rubbish. Turn it into manure with ADCO. ADCO is a powder which, mixed with almost any non-woody vegetable waste, and kept wet, gradually converts it into manure. 50 lbs. of ADCO make a ton of manure. Price, 150 lbs. \$10.50; 25 lbs. \$2.00.

**ASPARAGUS SALT**—Applied in spring 600 to 800 lbs. per acre, for destroying weeds. 56 lb. \$1.25; original sack, 140 lbs. \$2.25.

**ALUMINUM SULPHATE** (For Rhododendrons and Azaleas). 1 lb. 15c; 2 lbs. 25c; 5 lbs. 60c; \$6.25 per 100 lbs.

**BLOOD (DRIED)**—For indoor and outdoor culture of flowering plants, like roses, carnations, etc., its chief element being nitrogen. Fine for ferns. 1 lb. 15c; 5 lbs. 60c; \$1.00 per 10 lbs.; 25 lbs. \$2.00; \$3.75 per 50 lbs.; 100 lbs. \$7.00; \$12.00 per 200 lbs.

**PURE BONE MEAL (3-50)**—Splendid article for building up worn-out soil, lawns, etc. 1 lb. 6c; 10 lbs. 50c; 25 lbs. \$1.25; 100 lbs. \$3.25; 167-lb. bag \$4.75; ton \$46.00. Quick acting.

**RAW BONE MEAL (4½-48)**—Free from acid. Unusually rich in nitrogen and phosphoric acid, the two principal plant foods. We recommend this especially for greenhouses or any purpose where a high-class slow acting fertilizer counts. 1 lb. 6c; 10 lbs. 50c; 25 lbs. \$1.25; 100 lbs. \$3.50; 167 lbs. \$5.00; ton, \$50.00. Slow acting.

**BONE FLOUR**—Finely pulverized and bolted. Effective immediately. For rose growing this cannot be excelled. Rich in phosphoric acid and ammonia. Apply 600 lbs. per acre. 5 lbs. 50c; 10 lbs. 85c; 25 lbs. \$1.50; 50 lbs. \$2.75; 100 lbs. \$5.00; 200 lbs. \$8.50.

**GOAT MANURE**—Genuine Venezuelan. 100 lbs. \$3.50.

**FLEURETTE**—A Liquid Plant Food. Makes strong and rapid growth. To be diluted with water as per directions. ½ pt. 30c; 1 pt. 50c; 1 qt. 90c; gal. \$3.00. Not mailable.

**GYPSUM or LAND PLASTER**—Intensifies the color of roses, other flowers as well. Used for top dressing newly plowed land prior to harrowing; also for sweetening the soil on lawns and fields. Apply 1,000 to 1,500 lbs. per acre. 40c for 10 lbs.; 25 lbs. 60c; \$1.00 for 50 lbs.; 100 lbs. \$1.75; \$2.50 for 200 lbs.

**LIME (Hydrated or Powdered)**—Promotes growth and gives the grass a rich color. Apply one ton per acre on fields, or  $\frac{1}{2}$  ton on lawns. 5 lbs. 20c; 10 lbs. 30c; 50 lbs. \$1.00; 100 lbs. \$1.75; 500 lbs. \$6.25; 1,000 lbs. \$11.50. Ton prices on application.

**MURIATE OF POTASH**—Apply 100 to 150 lbs. per acre, usually with other fertilizers. Excellent for potatoes, corn, grains, etc. Analysis, equal to 50 per cent actual potash. 10c lb.; 3 lbs. 25c; 5 lbs. 40c; 10 lbs. 75c; 100 lbs. \$5.00.

**NITRATE OF SODA**—Apply 100 to 150 lbs. per acre, mixing with land plaster or other fertilizers to render application more easy. Use only after plants are above ground. If used in liquid form dilute 2 ozs. to 1 gal. of water and do not apply oftener than twice a week. 10c lb.; 3 lbs. for 25c; 5 lbs. 40c; 10 lbs. 75c; 100 lbs. \$4.50. Price on larger quantities on application.

**SULPHATE OF AMMONIA**—10c lb.; 3 lbs. 25c; 5 lbs. 40c; 10 lbs. 75c; 100 lbs. \$5.00.

**COMMERCIAL FERTILIZER** (Baugh & Armour) 2-8-5—For potatoes and general crop. Ton \$29.00; 165-lb. bag \$3.75; 100 lbs. \$2.75; 50 lbs. \$1.75; 25 lbs. \$1.00.

**SULPHATE OF POTASH**—Fine for roses. 10c lb.; 3 lbs. 25c; 5 lbs. 40c; 10 lbs. 75c; 100 lbs. \$5.00.

**PERUVIAN GUANO SUBSTITUTE** 5-8-5 (Baugh & Armour)—All around high grade fertilizer. Ton \$38.00; 165-lb. bag \$4.50; 100 lbs. \$3.25; 50 lbs. \$2.00; 25 lbs. \$1.25; 6c a lb.

**TOBACCO FERTILIZER** 4-8-4 (Baugh & Armour)—Ton \$36.00; 165-lb. bag \$4.00.

**COMMERCIAL FERTILIZER** 1-9-4 (Baugh & Armour)—All around goods. Ton \$25.00; 165-lb. bag \$3.25.

**UPLAND WHEAT FERTILIZER** 4-16-4 (Baugh & Armour)—Ton \$40.00; 165-lb. bag \$4.50.

**LOW LAND WHEAT FERTILIZER** 2-16-8 (Armour)—Ton \$38.00; 165-lb. bag \$4.25.

**PEAT MOSS** (Turf Mull)—Ideal for mulching evergreens, azaleas and rhododendrons. Makes evergreens flourish. The porous, tender rootlets of conifers tend to shrivel up and slowly kill the whole tree if they are not protected from moisture loss in the surrounding soil. Peat Moss having a slightly acid reaction is a natural feeding material for Evergreens and Evergreen Shrubs because its constituents are native to the forest soil in which they flourish best. Dig into the soil about 2 inches deep and also spread as a mulch. Peat Moss will increase their vitality and promote growth. The whole family of Broadleaved Evergreens, like Azaleas, Kalmias, Rhododendrons, etc., respond favorably to its use. The surprising capacity of Peat Moss for absorbing soil water and holding it for future use, keeps the growth beneath the evergreens moist and ideal for growth and vigor. It is also extensively used for growing of bulbs and storing of tubers such as dahlias, canna, etc. A full sized bale spreads 240 square feet, one inch deep. 1 pk. 35c;  $\frac{1}{2}$  bu. 60c; 1 bu. \$1.00. Weight about 14 lbs. per bu. Large bales containing about 5 or 6 bushels, \$3.50 per bale.

## What a difference a few of these magic tablets make!

Picture a plant—struggling gallantly but vainly—in a feeble, fruitless search to find food in soil that contains none. Faded, drooping, flowerless, you call it a failure. But is it?

A few of the magic plant food tablets called Plantabbs would have made this pathetic little plant a big success!

We now sell and recommend Plantabbs. Odorless, clean, easy to use, they're Trojans for work. A forkful of stable manure won't do as much for your plants and flowers as one of these concentrated, odorless white tablets! As they dissolve in water almost instantly, they make a wonderful liquid fertilizer, and when used in this way make the most wornout soil rich and fertile overnight.

Plantabbs are so perfectly balanced, so chuck full of growth producing, health giving, energizing plant food, that many florists and professional growers purchase them in quantities for their own use.

To raise potted plants of amazing beauty, to enjoy a gorgeous garden with a profusion of brilliantly colored blooms, to raise tender succulent vegetables, use Plantabbs! Leading horticulturists and State Agricultural Departments approve them—and we guarantee to refund your money if they fail to benefit your plants when used according to the instructions which come with each package.

A season's supply for your garden costs only \$3.50; other sizes sufficient for potted plants, sell for \$1.00, 50c, and 25c per package. Include in your next order.



## STIM-U-PLANT

An All-the-Year Fertilizer for Garden and House Plants. Prices: Trial size, 15c; small size, 25c; 100 tablets, 75c; 1,000, \$3.50. Postpaid.

**PHOSPHATE, HIGH-GRADE ACID TENNESSEE OR SOUTH CAROLINA ROCK**—16 per cent. Apply 1,000 lbs. per acre. Used for mixing with other fertilizers to increase the phosphoric acid analysis. Price, \$17.50 per ton; 167-lb. bag \$2.50.

**PREPARED FIBRE**—Grow your House Bulbs without soil, drainage or saucers. Highly recommended. 1 qt. 10c; 4 qts. 25c; pk. 40c; bu. \$1.15. Parcel post weight, 14 lbs. per bushel.

**STERILIZED HUMUS (Leaf Mold)**—Fine for lawns, replanting and repotting. 4c lb.; 10 lbs. 35c; 50 lbs. \$1.50; 100 lbs. \$2.50; 500 lbs. \$10.00; 1,000 lbs. \$18.50, last four sizes delivered. Ton and car load prices on application.

**TOBACCO STEMS**—For fumigating, mulching and fertilizing; an excellent top dressing for lawns in winter. 1 lb. 5c; 50 lbs. \$1.50; 100 lbs. \$2.50.

**WOOD ASHES** (Canadian Unleached Hardwood Ashes)—High in potash. Excellent for roses, grass, etc. Apply in early spring or late fall. 1,000 lbs. to acre. 5 lbs. 30c; 10 lbs. 50c; 25 lbs. \$1.00; 100 lbs. \$2.50.

**WIZARD BRAND PULVERIZED SHEEP MANURE.**

**WIZARD BRAND SHREDDED CATTLE MANURE.**

Both the above items are fully listed on back cover page of this catalogue.



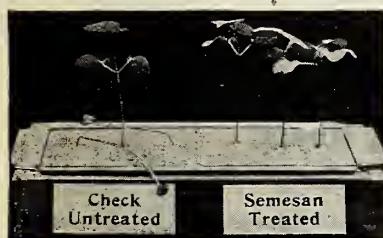
# Controls "BROWN PATCH", "DAMPING-OFF" and SEED-BORNE DISEASES of

## Grains, Field and Forage Crops, Vegetables, Corn, Potatoes and Flowers

### Better Flowers and Finer Vegetables Grow from Seeds Disinfected Against Diseases with Semesan

THE SEMESAN Disinfectants have revolutionized seed disease treatment and represent the most remarkable advancement of the century in scientific agriculture. Trained observers testify that they not only successfully control seed, plant and soil diseases, but also exert a stimulatory effect upon the growth of seedlings and plants with a consequent increase in yield and improvement in quality of the crops.

**SEMESAN**—The only chemical which can be applied in either the liquid or convenient dust forms to prevent or control effectively a most diversified variety



Semesan-Treated Cotton Seedlings Resist "Damping-Off"

lings or cuttings, and "Brown Patch" of grass lawns and golf greens. Semesan will also effectively disinfect against the common corn and potato diseases but for large quantities of seed corn we recommend Semesan Jr. and, for large plantings of potatoes, Semesan Bel. Semesan is just as effective for flower and nursery seeds or plants as for cleaning the disease organisms from field, forage, grain and vegetable seeds. Ask for Vegetable, Flower, Nursery, "Damping-Off," and "Brown Patch" Booklets.

of parasitic diseases and fungoid growths borne by seeds, bulbs and seed pieces, as well as many of those which infest the soils. Semesan is harmless to seed and plant life but thoroughly sterilizes practically all kinds of seed pieces against the disease germs or fungous spores that adhere to the seed coats or exist internally. It is easily applied, requires no laboratory equipment and is safe for the user to handle.

Among the important diseases which Semesan prevents or controls are "Damping-Off" of seed-

DU PONT SEMESAN is endorsed by the U. S. Department of Agriculture and the Green Section of the U. S. Golf Association as the best disinfectant and fungicide for the prevention and cure of "Brown Patch."

Semesan has been successfully used during the past two years for the perfect maintenance of many of America's finest golf courses and estate turfs. It is favored by prominent green-keepers and golf course architects. We can make immediate shipments.

A booklet that completely describes the nature of "Brown Patch" and its prevention or cure will be sent on request.

#### PRICES FOR SEMESAN DISINFECTANTS

The Semesan Disinfectants are regularly packed in the following sizes:

##### Prices for Du Pont Semesan

2 ozs.	\$.50	25 lbs.	\$ 62.50
8 ozs.	1.60	50 lbs.	122.50
1 lb.	2.75	100 lbs.	240.00
5 lbs.	13.00	350 lbs.	822.50

##### Prices for Jr. and Bel

1 lb.	\$.75	50 lbs.	\$ 72.50
5 lbs.	8.00	100 lbs.	140.00
25 lbs.	37.50	350 lbs.	472.50

Semesan Jr. is also packed in four-ounce tins, the price of which is 60¢ each.

**SEMESAN SPRAY**—For control of Brown Canker, Black Spot and Mildew of Roses. 1 lb. \$2.75.

#### SHIPMENTS OF SEMESAN DISINFECTANTS

Under the existing Postal Regulations, the Semesan Disinfectants are classified as poisonous substances and are therefore excluded from the mails. Shipments of them can be made only by express or freight.

### Velvety Lawns Luxuriant Shrubs

Now you can have the velvety lawn you have always wanted. Beautiful, bright-colored flowers and luxuriant shrubs. Tender, crisp and delicious flavored vegetables will be yours—if you apply

### Beautiful Flowers Better Vegetables

#### Odorless, Weedless, Dustless

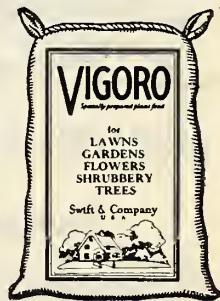
5-pound Can	\$.50
25-pound Bag	1.75
50-pound Bag	3.00
100-pound Bag	5.00

Packed in paper-lined cotton bags.

If to go by parcel post, add postage.

# VIGORO

*Specially prepared plant food*



**Armour's Lawn and Garden Grower**—6 per cent Ammonia, 8 per cent Available Phosphoric Acid, 6 per cent Potash. 5 lbs. 50c; 25 lbs. \$1.75; 50 lbs. \$3.00; 100 lbs. \$5.00.

**Springfield Rose Food**—An organic fertilizer, containing the vital elements of plant life in scientifically correct proportions to make it an ideal food for roses. Will keep your bushes in splendid condition and produce an abundant crop of perfect blooms. Prices: 10 lbs. \$1.00; 25 lbs. \$2.00; 100 lbs. \$5.00.

**Summers Specially Prepared Fertilizer**  
and distributed all over the eastern portion of the U. S. A.

For lawns, flowers, roses, shrubbery, trees, etc. Used and recommended by both State and Government—A pure organic mixture. Prices, 25 lbs. \$2.25; 50 lbs. \$3.50; 100 lbs. \$5.50; 200 lbs. \$10.00.

Du Pont Semesan Seed Disinfectants Meet Practically Every Need. Ask for Booklets on Either Variety.

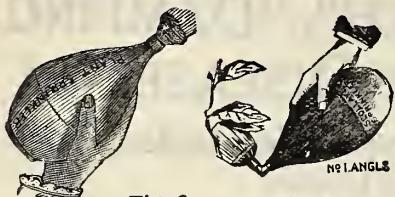


Fig. 2

Fig. 3

**RUBBER PLANT SPRINKLERS** — They can be used for sprinkling plants, cut flowers, etc., also for dampening clothes, and for disinfecting purposes.

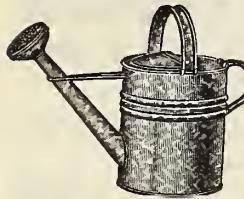
No. 28a—8 oz. angle neck. See Fig. 3. \$1.00. Parcel Post weight, 1 lb.

No. 28—Straight neck. See Figure 2. \$1.00. Parcel Post weight, 1 lb.

## No. 65 Bottle Sprayer

### Adapted to Home Purposes

Made of brass valves, nozzle throws a fine mist spray, is provided with cork and fits any ordinary quart bottle. Nickel plated, of fine appearance. Excellent for spraying disinfectants in homes, schools and hospitals and for plants or spraying flowers. Height: 12½ inches. Price, \$1.25, Postpaid \$1.35.



**WATERING CANS** — Made of heavy galvanized iron, removable rose. 4 qt. 65c; 6 qt. 75c; 8 qt. 90c; 10 qt. \$1.00; 12 qt. \$1.25; 16 qt. \$1.50.

**LONG SPOUT WATERING POT (Round Pattern)** — Equipped with two copper faced roses,

one fine, one coarse, with each can. Can shaped round, made of heavy galvanized iron.

**OVAL (FRENCH PATTERN) WATERING POT**

6 qt.	.....	\$5.60
8 qt.	.....	6.00
10 qt.	.....	6.50
12 qt.	.....	7.00

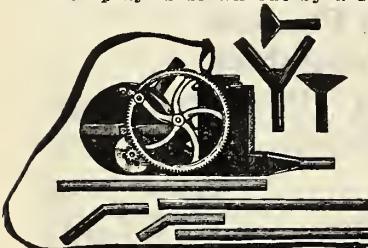
4 quart .....	\$4.50
6 quart .....	4.80
8 quart .....	5.25
10 quart .....	5.60
12 quart .....	6.10
16 quart .....	6.50

## No. 17

### Dry Powder Duster

Used extensively for dusting Paris Green, Arsenate of Lead, Arsenate of Calcium, Pomo Dust, All in One, etc. Made of heavy tin, nicely painted. Reservoir holds over one quart of powder, or four pounds of Paris Green. The spray is blown out by a fan, operated with

gear wheels, which are machine cut and therefore run smooth and easy. An agitator provides a constant flow of powder, with a gauge for regulating the amount of powder to be used. Will cover two rows at will of operator. Can also be used for tree spraying by connecting tubes. Full instructions accompany each duster. Wgt. empty, 5 lbs. Shipping weight, 10 lbs. Price, \$11.00.



**HEAVY TIN, JAPANNED RED WATERING POTS (English Pattern)** — 3 qt. \$4.75; 4 qt. \$6.00; 6 qt. \$6.50; 8 qt. \$7.00; 10 qt. \$7.50.

### Savage Dry Powder Duster

Similar to above, but has several improvements. Feed lever can be adjusted from 1 to 20 pounds per acre, which is a wonderful improvement over any duster made. Weight—Empty, 9½ lbs. Shipping weight, 14 lbs. Hopper—Capacity, 7 to 10 lbs. of poison, depending on density.

Full directions for operating with each Duster. Price, \$20.00. Send for special descriptive circular.

### Kristee Rubber Flower-Pot Trays

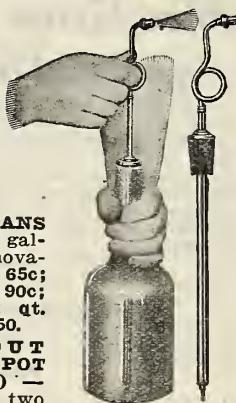
Made of a fine grade of rubber, of attractive green color. They are so designed to permit the air to circulate under the flower-pot and also under the tray. This patented circulation feature makes the Kristee Flower-Pot Tray the most scientific of its kind ever invented.

3½ inch .....	15c
5¼ inch .....	25c
8½ inch .....	50c



### Fairmount Weed Killer

Destroys vegetation wherever applied. One gallon makes 50 gallons of treating liquid to effectively cover 100 to 150 square yards. For driveways, tennis courts, baseball diamonds and walks, etc. Will not stain marble or stone. For 35 years the successful weed killer. Prices: ½ gal. can, 90c; 1 gal. can, \$1.75; 5 gal. can, \$6.75; 30 gal. drum, \$30.00; 55 gal. drum, \$55.00.



### Soiltex

#### TEST FOR ACID SOIL

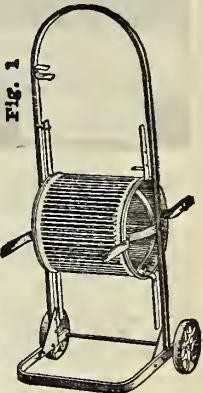
For Lawns, Golf Courses, Vegetable and Flower Gardens, Soiltex provides a simple and economical means of testing the acidity of the soil and determining what treatment it requires.

#### DOES YOUR SOIL NEED LIME?

Soiltex Tells What Your Soil Needs

With Soiltex, a new quick, easy and accurate soil testing method developed at the Michigan State Agricultural College, you can determine exactly in a few minutes whether your soil is acid, and how much lime it needs. Each outfit will make 75 to 100 tests. Full directions, color chart and lime table included. No special knowledge or equipment required. Costs less than 2 cents per sample tested. Soiltex will save you money. Soiltex Pocket-size Soil Testing Outfit, with color chart and lime table, postpaid, \$1.00.

### Rubber Hose, Reels, Menders, Etc.



**M. & S. SPRAYER NOZZLE** — Sprinkles like a watering can, or straight stream. Has automatic shut-off. Price, \$1.50.

**HOSE NOZZLES** — Combined solid stream and spray. 85c each. (Boston Gem.)

**RAIN KING NOZZLE** — The best yet, \$1.50.

**HOSE MENDERS (Sure Shot)** — 15c each; \$1.75 per dozen.

**HOSE COUPLINGS** — Brass, regular size, 25c per pair.

**HOSE WASHERS** — Rubber, regular size, 10c per dozen.

**HOSE BANDS** — For ¼, ¾ and ½-inch hose. 50c each; 50c per dozen.

**HOSE REELS** — Victor all steel cap; 75 ft. Price, \$2.50. (Figure 1.)

No. 10 TUBULAR HOSE REEL — Cap. 100 feet. Price, \$4.00.

No. 20 TUBULAR HOSE REEL — Cap. 150 feet. Price, \$5.00.

**SIAMESE CONNECTIONS**, Regular Size. Each \$1.75.

### Molded Braided Garden Hose

The hose we offer is the best. It is guaranteed not to break.

Continuous length braided ½ in. hose. We can furnish any lengths. We can highly recommend this hose. 15c per foot any length without couplings. Furnished also in ½ inch, 1c per foot less, and ⅜ inch 1c per foot more.

½-inch hose, 25 feet coupled, \$3.75; 50 ft. \$7.25; ¾-inch, 10 per foot more; ⅜-inch, 1c per foot less.

**ATLAS**  
NON-POISONOUS

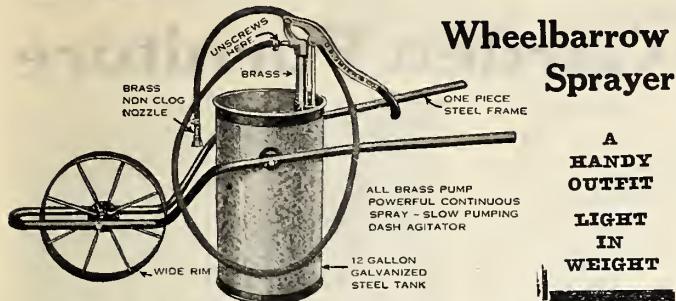
### WEED KILLER

PATENTED

1 qt. 75c; 2 qts. \$1.25; 1 gal. \$2.00; 5 gals. \$3.00; 30-gal. drum \$37.50; 50-gal. \$55.00.

The above in Powder Form, which is mailable. 1 lb. making 2½ gallons, 50c; 5 lbs. making 20 gallons, \$2.00. Parcel post weight, 2 lbs. and 6 lbs., respectively.

Will exterminate all undesirable vegetation — including poison ivy — as easily as watering a garden, without endangering human or animal life. One gallon is ample to clear 500 square feet of densely vegetated area. Dilute with 20 parts water.



The frame is steel, strong and durable. The pump may be quickly removed from tank and then the outfit may be used for wheeling water or slops about. Equipped with 8 feet best grade hose and 4-foot extension rod. Cannot be sent by parcel post. Price, \$15.00.

## Wheelbarrow Sprayer

A HANDY OUTFIT  
LIGHT IN WEIGHT

## Brown's Auto-Spray No. 9

### Compressed Air Sprayer

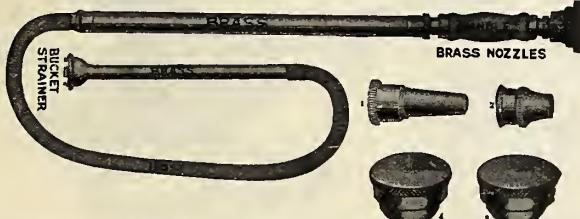
Sturdy compressed air sprayer, equipped with a heavy brass screw cap to lock pump in reservoir. The metal in the tank is lock-seamed, well riveted, and soldered throughout. May be obtained with brass or galvanized tank. Brass tank is strongly recommended as it will not rust and will withstand strong solutions. Capacity 4 gallons, weight packed for shipment, 10 lbs. USES—For spraying field crops, shrubs, vines, poultry houses, for removing wall paper, disinfecting, whitewashing, creosoting shingles and for general purposes. 2-foot extension with each machine, no extra price. New solid seamless brass pump and brass ball check valve.

Auto-Spray No. 9-B, brass tank with Auto-Pop.....\$9.25

Auto-Spray No. 9-D, galvanized tank, with Auto-Pop. 6.25  
Parcel post weight, 12 lbs.



## Spray Nozzles, Hose, Extensions



**No. 45 STURDY SPRAY PUMP**—All brass. A high pressure, yet light and durable sprayer, made entirely of brass. It is double acting, produces a continuous spray and works from bucket, barrel, etc. Price, complete.....\$4.50

With Galvanized Tank.....7.50

### NON-CLOG JR. BRASS NOZZLE

Either straight or 45 degree angle. 75c each.

No. 176—Golden Automatic Nozzle.....\$1.50

No. 136—Bordeaux Nozzle.....1.00

No. 145—Simplex Nozzle.....75

No. 146—Angle Nozzle.....75

No. 149—Leakless shut-off.....1.00

No. 131—3 ft. Brass Extension..90

No. 132—2 ft. Brass Extension..75

No. 175—4 ft. iron pipe extension .80

All Nozzles Postpaid.

No. 42—8 ft. Bamboo. Price with stop cock.....\$3.50

No. 44—10 ft. Bamboo. Price with stop cock.....3.90

No. 46—12 ft. Bamboo. Price with stop cock.....4.30

Not mailable. Express only.

Spray Hose,  $\frac{1}{2}$  inch, best made, all rubber, 180 per ft. Postpaid.  $\frac{1}{2}$  inch clamps for same, 5c each; 50c dozen. Postpaid.

$\frac{1}{2}$  inch Hose Couplings, 25c pair. Postpaid.

$\frac{1}{2}$  inch Male fittings, No. 137, 25c.

$\frac{1}{2}$  inch Female fittings, No. 137, 25c.

## Brown's Auto-Spray

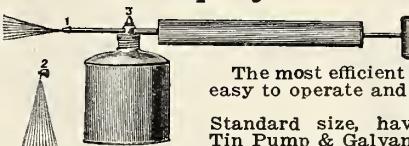
### No. 50

This sturdy little machine is entirely suitable for spraying on a small scale. It is particularly recommended for use where weight is a factor as when women folk or youngsters help out with the spraying.

Built exactly the same as our 4-gallon sprayers, except tank is  $2\frac{1}{2}$  gallon capacity; 18-inch extension with each sprayer. Weight, 7 lbs. Auto-Spray No. 50-B, brass tank, \$7.90. Auto-Spray No. 50-D, galv. tank, \$5.40.



## Robertson Compressed Air Sprayer



The most efficient hand sprayer ever offered; easy to operate and gives a continuous spray.

### Prices

Standard size, having one-quart container. Tin Pump & Galvanized Iron Container, \$1.25. Brass Pump and Copper Container.....2.25

All sprayers have brass tubes and fittings. If to go by parcel post, add 10c to each.

## Niagara Powder Dusters

Excellent for dusting flowers, trees, and in poultry houses. Handles Arsenate of Lead, Calcium, Paris Green, Sulphur, Pomo Dust, All in One, etc. Price: \$1.25; via post, \$1.35.

Cyanogas Hand Duster—Very efficient. All round duster, \$1.40; postpaid, \$1.50.

Cyanogas Foot Pump—Small, \$4.75.



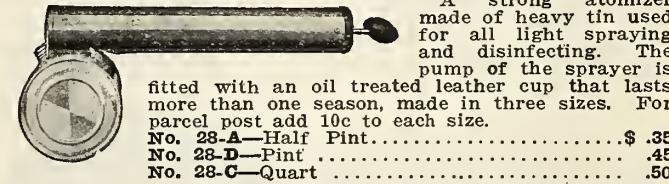
## Brown's Auto-Spray No. 26C

### It Sprays Continuously.

This Atomizer will spray insecticide in a continuous fog of such great volume that it will fill an ordinary room full of vapor in one minute. Unequaled for small garden and house plant sprays. Handles all insecticides, fly and mosquito exterminators and floor oils. Every household should have one of these atomizers. All brass, 1 qt. with legs. Price, \$1.25; postpaid, \$1.35.



## No. 28 A, D & C Tin Sprayers



fitted with an oil treated leather cup that lasts more than one season, made in three sizes. For parcel post add 10c to each size.

No. 28-A—Half Pint.....\$ .35

No. 28-D—Pint .....45

No. 28-C—Quart .....50

## Speedex Sprayer

Made with brass pump and galvanized steel tank.

Pump chamber Brass,  $1\frac{1}{2}$  in. by  $1\frac{1}{2}$  in.

Tank: 8 in. by 5 in.

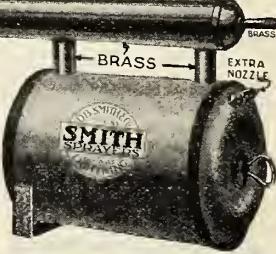
Nozzles: Brass for spraying straight ahead or at an angle.

Capacity: One-half gallon.

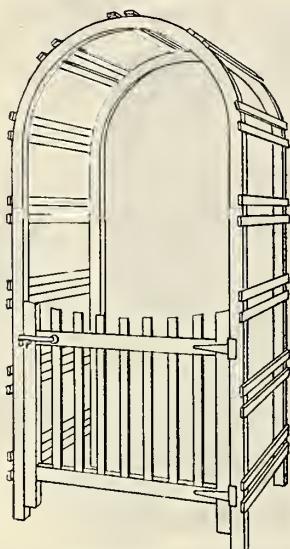
Price, \$2.00; for postage 15c extra.

## Barrel Pump

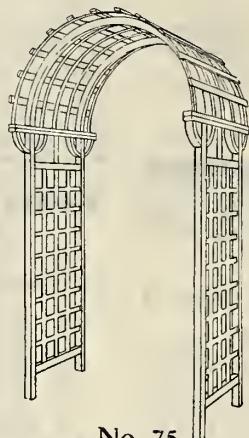
Pump complete with 6 feet of  $\frac{1}{2}$ -inch spray hose and Ideal angle spray nozzle, 4 ft. extension rod. Shipping weight, 45 lbs. Price, each \$14.00.



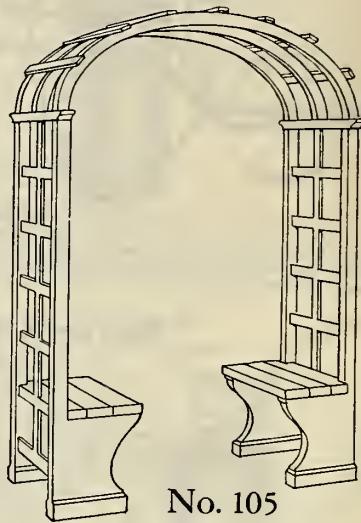
# Unadilla Yard and Garden Furniture



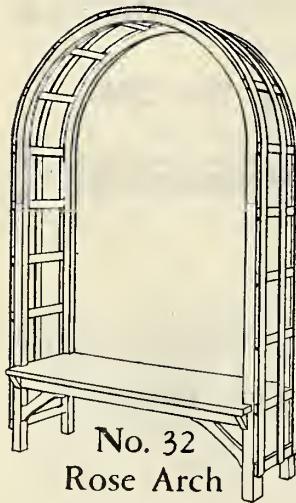
No. 166  
Arched Gateway



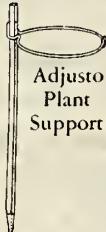
No. 75  
Rose Arch



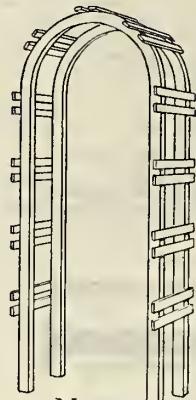
No. 105  
Arbor Seat



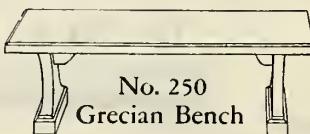
No. 32  
Rose Arch



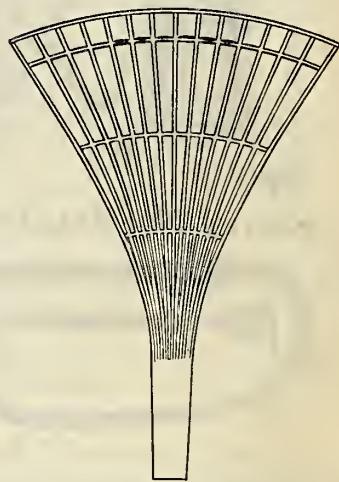
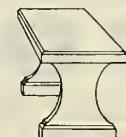
Adjusto  
Plant  
Support



No. 80  
Rose Arch



No. 250  
Grecian Bench



No. 55  
Rose Trellis

## DESCRIPTION AND PRICES

**No. 166 Arched Gateway** makes a most attractive garden decoration. Gate is 38 ins. wide and 3 ft. high. The arched trellis is 3 ft. deep and 7 ft. high. Price, complete with gate, \$29.00; without gate, \$20.00.

**No. 75 Rose Arch** is a popular type of real beauty. It has a width of 4 ft. and a depth of 2 ft. Price, \$34.00.

**No. 105 Arbor Seat**, when covered with roses or vines, provides a decidedly attractive cozy corner on any lawn or garden plot. Width, 5 ft.; depth, 2 ft. Price, \$50.00.

**No. 106 Arbor Seat** is the same as No. 105 excepting that it has a depth of 2½ ft. Price, \$56.00.

**No. 32 Rose Arch** is an attractive seat of graceful proportions and substantial construction. Length of seat, 4 ft.; depth, 18 ins. Price, \$43.00. Same design with back lattice, \$50.00.

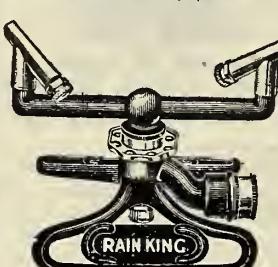
**No. 80 Rose Arch** has a depth of 2 ft. with a width of 3, 4 or 5 ft., as desired. Price, 3 ft. width, \$11.00; 4 ft., \$12.50; 5 ft., \$14.00.

**No. 250 Grecian Bench**, placed here and there among the shady lawn nooks, make the outdoor home more attractive and enjoyable. Top width, 15 ins. Price, 3 ft. long, \$9.00; 4 ft., \$10.00; 5 ft., \$12.00; 6 ft., \$13.00.

**No. 55 Rose Trellis** is made in two sizes: 7 feet high, over all, with 10 ribs and top spread of 4 feet; price, \$6.00; and 8 feet high, over all, with 15 ribs and top spread of 6 feet; price, \$10.00.

**Adjusto Plant Supports** comprise a sturdy hard wood stake equipped with a patented adjustable wire loop. Price, 18 in. height, \$1.20 per dozen; 24 in., \$1.50; 3 ft., \$3.00; 4 ft., \$3.60; 5 ft., \$4.20; 6 ft., \$4.80.

Whatever you buy of the Unadilla line will measure up to your expectations as relates to quality of materials, staunchness of construction and finish. Unadilla furniture is ultra-fine, very durable and its finish is washable.



## Standard Rain King Sprinkler

Price, \$3.50, postpaid.

**GIANT RAIN KING**—Like Standard, but is four feet high and has four nozzles. Price, \$12.50; postpaid, \$12.75.

## SKINNER SYSTEM SPRINKLERS

COMPLETE CATALOG ON REQUEST



### OVERHEAD IRRIGATION Automatic or Hand Turn.

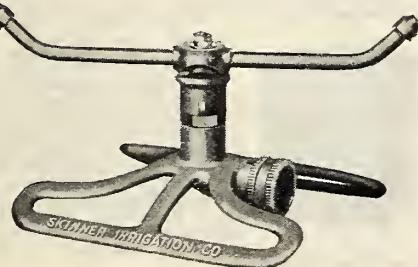
For vegetable and flower gardens, we strongly recommend our overhead irrigation system. Without doubt, it is the nearest approach to a gentle shower that it is possible for man to produce.

### THE MOR-RAIN SPRINKLER

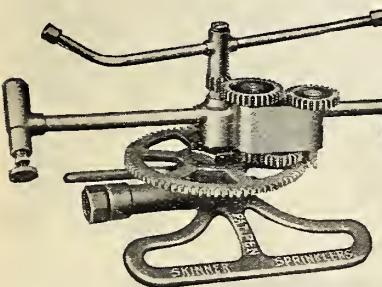
It will throw fine drops of water uniformly over a 50-foot circle. But you can regulate the area by opening or closing your faucet. The half-circle head delivers a mist that falls so gently that the lightest soil is not washed away, nor does it injure the tenderest plant. This mist is thrown 18 to 20 feet from the sprinkler, but can be throttled down to only a few feet.

If you have open spaces in your lawn from 50 to 100 feet in diameter, you will do well to choose Mor-Rain to do your watering. Mor-Rain is built to give years of service. The head and arms are made of brass. The base is of iron and weighs 3 lbs., so that it cannot easily be upset. Attractively painted.

Price, \$3.00; postpaid, \$3.15.



### THE ROTO-RAIN SPRINKLER



This is without doubt one of the most wonderful rotating, large area sprinklers that has ever been made. It will throw a fine spray covering as little as a 10 ft. circle, or a full flow that will cover an 80 ft. circle. These changes are instantly made by adjusting the large nozzles.

The large nozzles revolve very slowly, 70 seconds being required to complete

the circuit. This insures perfect watering, and promotes a healthy, deep-rooted growth of turf, shrubbery and flowers.

Roto-Rain is 10 inches high and weighs 12 pounds. Recommended water pressure, 35 to 50 pounds. Price, \$15.00, postpaid.

### THE LAWN-MIST SPRINKLER

The Lawn Mist is ideal for narrow rectangles, small formal gardens, etc. For grass-growing, there is nothing to equal it.

It is 15 feet long, with five clusters of three nozzles each. It covers a strip of ground 16 feet x 20 feet. Not less than 20 pounds pressure is recommended. Mounted on wheel truck. Weighs 30 lbs. Price, \$12.50. Cannot be mailed.

**LAWN MIST, JR.** Is 9½ feet long. Four spray clusters of three nozzles each. It is mounted on skids and is easily pulled or carried about. It weighs only 13 pounds. Price, \$8.00. Not mailable.



### THE PEACOCK SPRINKLER

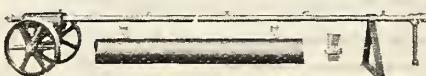
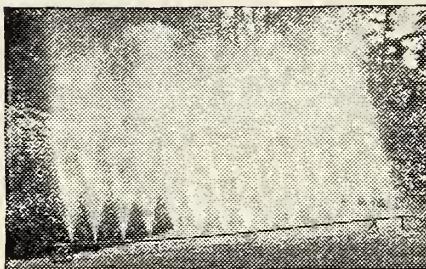
A wonderful sprinkler, very beautiful in action, especially in full sunlight. The sprays are thrown out fanwise like a peacock's tail—hence the name. The streams are shot high into the air and before falling break into countless tiny drops.

It is made to use singly or several sections together. Each section has a wheel truck at one end and can be easily pushed to any location. The Standard Peacock is 12½ feet long and will water a strip of ground 15 ft. by 50 ft. at 40 lbs. pressure. Weight is 25 lbs. Price \$15.00. Not mailable.

**PEACOCK JUNIOR** is 7 ft. long and will cover a strip 10 ft. by 50 ft. at 40 lbs. pressure. It is mounted on skids, and weighs 12 lbs. Price, \$8.50. Not mailable.



### THE BORDER-MIST SPRINKLER



The Border-Mist is the ideal one-way sprinkler—a sprinkler that throws water only on one side at a time. Its light spray waters any width from 30 inches to 16 feet.

Placed on the walk, it will water the grass or flowers without wetting the walk, or will water deep into the shrubbery.

There is a handle on the sprinkler so that without turning off the water, the spray can be changed to any angle or the direction of the water completely reversed. Its length is 15 feet. Mounted on wheel truck. Minimum pressure recommended, 15 lbs. Water 16 ft. x 36 ft. at one setting. Price, \$12.50. Not mailable.

**THE BORDER-MIST JUNIOR** is exactly like the Standard, except that it is 9 ft. long instead of 15 ft. Weighs 16 lbs. Is mounted on skids. Superb sprinkler for the ordinary 50 ft. lot. Price, \$3.00. Not mailable.

**TYPE B OSCILLATING SPRINKLER AND STAND**, \$35.00. Plus 50c per foot for Sprinkling Line, including stands, f. o. b. factory.

Regardless of the size or shape of your place, the condition of your soil, or the volume and pressure of your water supply, there's a Skinner System Sprinkler exactly adapted to your needs. If it is not shown in this list, or if you are in doubt, talk to your dealer or write us.



### Fountain Sprinkler

Made of Heavy Brass.

Easily moved over the lawn without turning off the water. The mist-like spray is a veritable "thing of beauty." Price, \$1.00, postpaid.

Half-Circle Sprinkler, 85c, postpaid.

### Adjustable Rain-Drop Lawn Sprinkler

#### FOR UNIVERSAL USE

For watering along the walk or property line it is adjusted as shown in this illustration. It will throw the water away from the walk and keep it dry while wetting the curb or lawn.

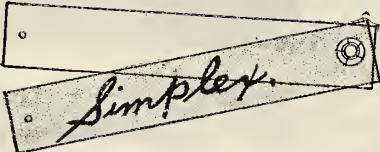
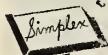
Where it is desired to throw water to a distant point, the rose top can be removed and hose nozzle put in its place and adjusted to throw the water where you want it. Price, complete, \$1.50, postpaid.



**Pot and Tree Labels—Painted**

Width.	100	P. P. Wt.	500	1000	P. P. W.	per 1000
4 $\times \frac{1}{2}$ in.	\$0.30	1/2 lb.	\$1.00	\$1.70	3 lbs.	
5 $\times \frac{1}{2}$ in.	.35	1/2 lb.	1.25	2.10	4 lbs.	
5 $\times \frac{1}{2}$ in.	.40	3/4 lb.	1.50	2.50	5 lbs.	
10 $\times \frac{1}{2}$ in.	.75	1 lb.	3.50	5.80	10 lbs.	
12 $\times \frac{1}{2}$ in.	.90	2 lb.	3.75	7.00	12 lbs.	
8 $\times \frac{1}{2}$ in.	.75	2 lb.	3.50	6.50	9 lbs.	
10 $\times \frac{1}{2}$ in.	1.00	2 lb.	4.25	8.00	10 lbs.	
12 $\times \frac{1}{2}$ in.	1.25	3 lb.	6.00	11.00	12 lbs.	
3 1/2" Copper Wired	.35	1/2 lb.	1.40	2.30	4 lbs.	

**IMPROVED GALVANIZED MARKER**—9 inches long to be stuck in ground. Marker weatherproof. \$5.00, 100; 75¢ doz.

**Simplex Weatherproof Garden Labels**

green, baked enamel. This label is a neutral color and is designed not to be unduly conspicuous. It will harmonize with the general garden plan. Price, 25¢; postpaid, 32¢.

In both Plant and Garden Labels the material carrying the writing is white celluloid with a specially prepared surface. This is protected by a transparent cover of mica.

Marking done with an ordinary lead pencil is not affected by the most severe weather conditions and will last for years.

Simplex Weatherproof Labels are adapted for all outdoor garden records. The Plant Label is excellent for roses and other shrubs. The Garden Label is used for peonies, dahlias, bulbs, flower and vegetable plantings or wherever a wired label cannot be used to advantage.

**Prices Including Copper Wires for Attaching—Postpaid.**

	Per 100.	Doz.
No. 1—3x 1/2 inches.....	\$3.00	.50
No. 2—4x 1/2 inches.....	5.00	.75
No. 3—5x 1 inches.....	7.00	1.00

**GREEN PAINTED ROUND PLANT STAKES**

5 FT.



4 FT.



3 FT.



2 FT.

**HEAVY PLANT STAKES**

3 ft. Heavy or Dahlia. Each 12c.	Per doz. \$1.15.	Per 100 \$8.60
4 ft. Heavy or Dahlia. Each 15c.	Per doz. \$1.55	Per 100 \$11.40
5 ft. Heavy or Dahlia. Each 20c.	Per doz. \$2.25	Per 100 \$14.80
6 ft. Heavy or Dahlia. Each 25c.	Per doz. \$2.50	Per 100 \$17.90
F. P. Wgt., Per Doz., 3 ft.; 3 lb.; 4 ft.; 5 lb.; 5 ft.; 7 lb.; 6 ft.; 9 lb.		

**LIGHT PLANT STAKES**

1 1/2 ft. Light, each 3c; dozen 25c; 100 \$1.50.		
2 ft. Light, each 4c; dozen 40c; 100 \$2.80.		
2 1/2 ft. Light, each 6c; dozen 60c; 100 \$4.10.		
3 ft. Light, each 8c; dozen 75c; 100 \$5.40.		
Parcel Post Weight, Per Dozen, 1 1/2 ft.; 1/2 lb.; 2 ft., 1/2 lb.; 2 1/2 ft., 1 lb.; 3 ft., 1 1/4 lb.		

**BAMBOO PLANT STAKES**

	Dozen.	1000
2 ft., painted green .....	\$0.15	\$0.75
3 ft., painted green .....	.20	1.10
4 ft., painted green .....	.25	1.50
5 ft., painted green .....	.30	1.75
6 ft., not painted .....	.35	2.00
6 ft., not painted, heavy tonkin, fine for dahlias. Doz. \$1; 100, \$7.50		14.00

**Pointed Floral or Hyacinth Stakes**

Used for Staking Hyacinths, Tulips, Etc. Dyed Green.

Price: 18-inch 8c doz.; 50c per 100; \$3.00 per 1,000.

Special Prices to Florists in 1,000 Lots.

**WIRE VEGETABLE CRUTCHES**

	Doz.	100.
3 foot .....	\$0.55	\$.40
4 foot .....	.75	5.50
5 foot .....	.95	7.25

If wanted by Parcel Post add 10 per cent of value for postage.

**ADJUSTO PLANT SUPPORTS—See page 53.**

**ROUND, WIRE PLANT SUPPORTS**—Fine for tomato plants, peonies, etc. 30c each; \$3.00 doz.

**Garden Reels**

Every gardener should have one of these handy reels. Straight rows add greatly to the looks of the garden. These reels are made of heavy iron, and will last a life time.

Large size double reel to hold 100 feet of line, \$3.15.

Large size single, \$2.50.

Small size, \$1.25.

Via mail, either size, 25c extra.

**"LIGHTNING" WIRE PLANT TIE.**

For fastening plants to stakes, either wire or wood; can be used many times. 1,000 ties in a package. Price, \$2.00.

**Twines, Etc.**

Jute Twine—3-ply, 25c ball.

Binder Twine—Standard; ball, 5 lbs. \$1.25.

Fodder Twine, or Tarred Sisal—Lb. 15c. Quantity prices furnished on application.

Flow Lines—Per pair, Sisal, 50c. Weight, 2 lbs.

Garden Line—150 feet of good cotton line, 35c.

**N. Y. Style Cedar Tubs**

The New York style tree tubs are made of seasoned selected Virginia white cedar, and are trimmed with specially designed metal feet, extra heavy flat steel hoops and liberal-size metal handles. These tubs are painted with the best oil paints—a handsome green on the outside and dark gray inside. Hoops, handles and feet trimmed in jet black.

**Richmond Style.**

Size.	Top Diameter Inches.	Bottom Diameter Inches.	Depth Inches.	Price Each.	Weight Each Pounds.
No. 1	12	9 1/2	10 1/2	\$2.40	.9
No. 2	13	10 1/2	12 1/2	3.00	1.8
No. 3	14 1/2	12 7/16	14 1/2	3.75	1.5
No. 3 1/2	16 1/2	14 1/2	15 1/2	5.00	1.8
No. 4	19 7/16	17 1/2	16 1/2	5.50	2.1
No. 5	22 7/16	20 1/2	18 1/2	7.00	2.6

The Richmond Style tree tubs are made of seasoned selected Virginia white cedar, are bound with electric-welded wire hoops, galvanized, three hoops to each. The Richmond Style fills a long-felt want for a cheap type of plant tub and is being used by many large florists in the place of earth pots. These plant tubs are nicely painted with the best oil paints—a handsome green color inside and out. The tops of the staves are slightly bevelled, which gives them a neat, trim finish. Has no feet or handles.

Size.	Inside Top Diameter Inches.	Inside Bottom Diameter Inches.	Inside Depth Inches.	Price Each.	Weight Each Pounds.
No. 5	10	7 1/2	9	\$0.85	.3
No. 7	12	9	11	1.25	4 1/2
No. 9	14	11	13	2.00	7
No. 11	16	12 1/2	15	2.50	9

**Earthenware Flower Pots**

Sent by Express and Freight Only. Packing at Cost.

	Each.	Dozen.	100.
2 in. ....	\$0.02 1/2	\$0.20	\$1.25
2 1/2 in. ....	.03	.25	1.75
3 in. ....	.04	.30	2.00
4 in. ....	.05	.45	3.00
5 in. ....	.07	.75	5.25
6 in. ....	.10	1.10	7.50
7 in. ....	.16	1.75	13.50
8 in. ....	.25	2.50	18.50
9 in. ....	.40	3.75	27.50
10 in. ....	.50	5.00	35.00
12 in. ....	.90	9.50	70.00
14 in. ....	1.60	16.00	125.00
16 in. ....	3.00		

**EARTHEN BULB PANS**

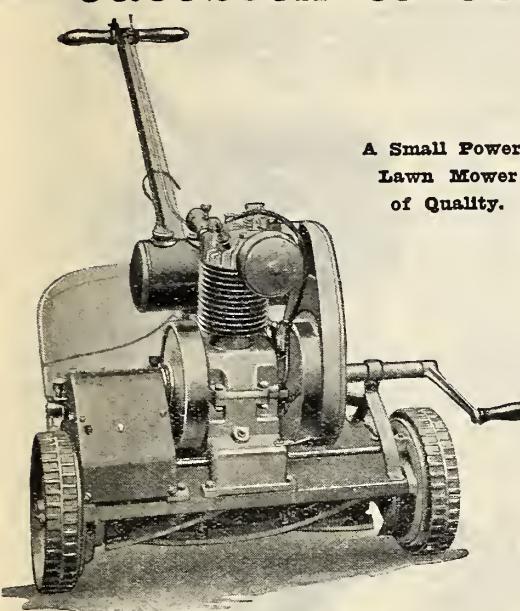
	Each.	Dozen.	100.
6 in. ....	\$0.12	\$1.25	\$7.75
7 in. ....	.18	2.00	15.00
8 in. ....	.30	2.75	20.00
9 in. ....	.40	3.75	29.00
10 in. ....	.55	5.50	37.50

**EARTHENWARE SAUCERS**

	4 in.	5 in.	6 in.	7 in.	8 in.
	\$0.04	\$0.40	9 in. ....	\$0.15	\$1.50
	.06	.50	10 in. ....	.18	1.75
	.07	.65	12 in. ....	.30	3.00
	.10	1.00	14 in. ....	.40	4.00

Prices on 1,000 Lots on Application.

# Jacobsen & Coldwell Power Lawn Mowers



A Small Power  
Lawn Mower  
of Quality.

Jacobsen Junior

will not mar or scuff the turf and does the work of two or three men with hand mowers. The Estate Mower is also a roller mower suitable for the fine lawns of private estates. Prices and complete description on request.

For the home, school or industrial lawn of moderate size, or for lawns with numerous obstructions and terraces, this mower has proven very popular. It is a worthy member of the Jacobsen family, faultlessly engineered and designed for sturdy, simple dependability. The five-blade reel cuts a 19-inch swath at the rate of two acres a day on a gallon of gas. Travels on its own power and the cutting reel is power driven with control at the handle—no pushing or pulling necessary. The "Junior" actually handles easier than a hand mower. The self-sharpening device is a distinct feature.

## Junior Power Mower

The motor of the "Junior" Mower is a 4 cycle, 1 horsepower, slow-speed motor with a  $2\frac{1}{2}$  x  $2\frac{1}{2}$  cylinder, overhead valves, crankcase and oil pump lubrication, and is equipped with a dependable magneto—eliminating troublesome coils and batteries. It starts with a crank—not a rope pull. The transmission and clutches are entirely enclosed in dust-proof housings—no exposed chains or gears. It is indeed a tiny small power lawn mower.

The Jacobsen "Junior" Power Lawn Mower is remarkable in its performance, attractive in price and fully guaranteed. Price, \$190.00, with separate reel and traction clutch, \$205.00.

## Jacobsen 4-Acre Heavy Duty Power Lawn Mower

The Improved Jacobsen 4-Acre is a heavy duty mower that represents the highest type of walking power mower. For years it has been an outstanding success, and the Improved model of today, with increased motor power and various mechanical refinements will meet the most exacting standards of strenuous, every-day work for many years, and quickly pay for itself in time and labor saved. Price, \$285.00.

## Also Putting-Green and Estate Roller Mowers

The Jacobsen Putting-Green Mower has for five years performed successfully on many of the finest greens in the country. The traction being obtained by rollers instead of wheels prevents the mower from dropping into pockets. It rollers instead of wheels prevents the mower from dropping into pockets. It is also a roller mower suitable for the fine lawns of private estates. Prices and complete description on request.

# The Coldwell Cub Power Lawn Mower

The Coldwell Cub is a light, substantially built power lawn mower with a 21-inch detachable front cutting unit and a full width drive roller. Separate clutches control the cutting unit and the traction roller. The clutch levers are conveniently located on the handle and can be engaged or disengaged with one finger. The drive roller is divided and is driven through a differential so that sharp turns can be made without marking the lawn. Where ground conditions require, wheels can be substituted for the drive roller, making a wheel type mower but retaining the advantages of a removable front cutting unit.

The front cutting unit makes it possible to cut close to trees or walls so that a finished job can be done without the use of a hand mower. The cutting unit can be removed for sharpening or repair without loosening up the cross members of the frame or cutting unit.

The engine and transmission are mounted on a steel frame in a perfectly accessible position and located so the mower is in lateral balance. The engine has been specially designed for this mower. Not being limited to the general purpose engines offered on the market, it has been possible to incorporate the features required for this exacting heavy duty service. The engine is  $2\frac{1}{2}$  inch bore, 3 inch stroke and at 1200 revolutions per minute develops  $1\frac{1}{2}$  brake horsepower.

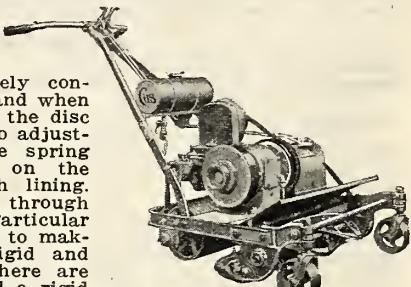
The cylinder is water cooled with fan and radiator so that full load can be carried continuously in hottest weather. Note particularly that this is a horizontal engine which gives a low center of gravity and aids in obtaining a perfect balance. An automobile type carburetor is used with a gasoline tank large enough for eight hours' use. A constant speed is maintained by a fly ball governor mounted in the fly wheel. The governor parts are sturdy and covered so that they will not be deranged or damaged in handling.

One and one-half pints of oil poured into the crank case supply lubrication for all the engine parts for several days. Oil is raised from the oil pan by a pump and circulated to the bearings and cylinder. Splash lubrication is not used as it is unreliable in an engine subjected to such violent vibration and

tipping, as is encountered in cutting rough lawns. Ignition is supplied by a Bosch high-tension fly wheel type magneto mounted directly on the crank shaft. These magnetos have been developed for outboard motors and are specially water-proofed. The crank shaft is mounted on two large Timken tapered roller bearings. This is a feature never before incorporated in an engine of this size, but it is warranted in view of the exacting service required. These bearings are guaranteed for the life of the engine and will be replaced if they fail for any reason.

The friction clutches are of the dry plate spring loaded type almost universally used on automobiles. Each clutch is separately controlled from the handle and when engaged a spring forces the disc up to the drive plate. No adjustment is needed as the spring follows up any wear on the moulded asbestos clutch lining. The power is transmitted through hardened roller chain. Particular attention has been given to making the cutting unit rigid and accessible. Note that there are three heavy tie rods and a rigid knife bar to hold it in alignment. The knife bar adjustment is on the outside and the wiper bearings have a simple adjustment on the outside of the frame. A Zerk grease gun furnishes efficient lubrication for all the bearings outside of the engine.

In this machine we realize our ideal of a light, strong, easily handled mower, so simple that an inexperienced man can understand and operate it. It is made light and strong by using steel and malleable iron where best adapted. Flexibility and maneuvering is obtained by proper distribution of weight and mounting on a large drive roller and casters. Price, \$195.00.



## Bird's IMPROVED NEPONSET Flower Pots



Extensively used for shipping, starting seeds and seedlings in frames and hot-houses.

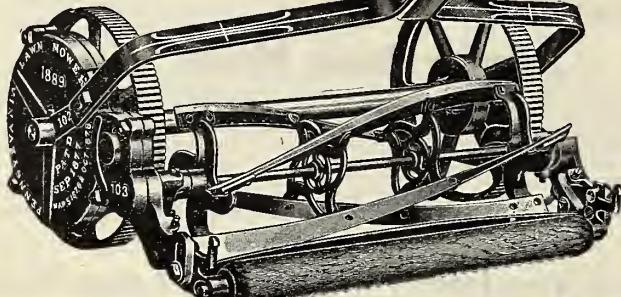
	Per Doz.	Per 100.	Per 1,000.		Per Doz.	Per 100.	Per 1,000.
2 1/4 in. ....	\$0.08	\$0.50	\$3.75	4 in. ....	\$0.25	\$1.25	\$9.00
3 in. ....	.15	.70	5.75	5 in. ....	.30	1.75	14.00
3 1/2 in. ....	.20	1.00	7.25	6 in. ....	.40	2.50	18.00

Dozen and 100 lots, postpaid; 1,000 lots, add 25¢.

**Our Mowers Must  
Give Results**

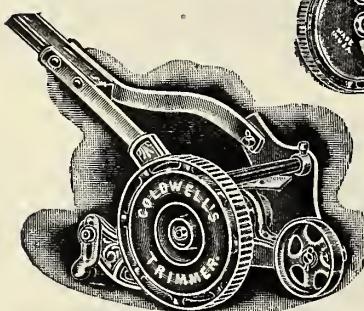
**PENNSYLVANIA HIGH WHEEL  
(STANDARD)**

The Standard Pennsylvania is the pioneer of all lawn mowers, having an open cylinder, open wheels and a train of gears. 15 in. cut \$28.00; 17 in. \$32.00; 19 in. \$36.00; 20 in. \$40.00.



**M. & S. "COLONIAL" BALL BEARING LAWNMOWER**—A grand little machine that runs so easy that it can be operated by a lady or child. The four revolving cutter blades are made of the finest material.

**PRICES:**  
12 in. \$9.50; 14 in. \$10.50;  
16 in. \$11.50.



away with the back-breaking job of trimming with shears. Especially desirable for cemetery trimming.

**Specifications**

**Blades**—Four crucible steel.  
**Gears**—Fine cut gears in drive wheels. Pinion and pawl drive. Accurate and noiseless.

**Bearings**—Balls, finest drop-forged steel, case hardened. Cones made from steel shafting, turned and ground for true finish.  
**Wheels**—8 inch solid wheel on right side only. Small caster wheel in front on left side.

**Parts**—Malleable and cast. Best grade. Carefully machined and assembled.

**Bottom Knife**—Finest tool steel knife, self-sharpening.

**Bottom Knife Bar**—Heavy ribbed. Simple adjustment.

**Handle**—Hardwood, adjustable steel braces.

**Finish**—Golden Bronze, Maroon striping.

**Width of Cut**—8 inches only. **Price**, \$11.25.

**COLDWELL'S IMPROVED HORSE LAWN MOWER**—This well known standard mower has side draft attachment that enables the horse to walk on the cut grass only, and caster rollers which will not mark the lawn. Complete with seat and shaft.

**Price**: 30 in. \$125.00;  
35 in. \$135.00; 40 in.  
\$152.50.

**PONY MOWER**, 25-inch cut, equipped with single tree only. **Price**, \$80.00.

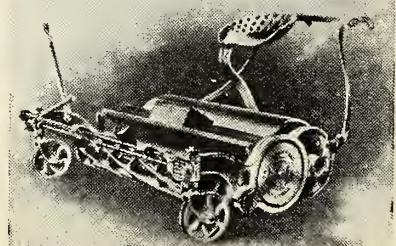
**OIL CANS** — Filled with oil, 15c and 25c.

We Repair  
and  
Sharpen

Lawn Mowers

**HORSE BOOTS**, Set of four, \$15.00.

## Coldwell's "Improved" Horse Lawn Mower



**M. & S. "INTERSTATE"**—Is a high grade, high wheel, ball bearing mower at a moderate price. Light and easy to handle. Has large revolving cutter, high frequency and will do a fine job of cutting with little effort.

**Specifications**  
**Blades**—Four crucible steel.

**Gears**—Pinion and flat sliding pawl type. Direct drive both sides. Protected from dirt and flying grass.

**Bearings**—Balls, finest drop-forged steel, case hardened. Cones made from steel shafting, turned and ground for true finish.

**Frame**—Open type, light in weight but strong and durable.

**Wheels**—10 inches, six spokes, open style.

**Parts**—Same high grade material and accurate workmanship as used in higher priced machines.

**Bottom Knife**—Flat crucible steel, self-sharpening.

**Height of Cut**— $\frac{1}{2}$  to  $1\frac{1}{2}$  inches.

**Handle**—Hardwood, varnished. Adjustable braces.

**Finish**—Blue and gold. **Prices**: 14 in. cut \$12.50; 16 in. \$13.50; 18 in. \$14.50.

**COLDWELL'S IMPROVED ROLLER BEARING**

Designed to meet the demands of park and cemetery superintendents. Durable, light running, easy to push and requiring minimum of attention to adjustments. Roller bearings enclosed in dust-proof housings. When packed with light grease will need no further oiling for the season. Best lawn mower on the market for hard service in parks, cemeteries and private grounds.

**Lightest Running—Strongest Built.**  
**Wheels**—10 $\frac{1}{4}$  inch.

**Blades**—Five.

**Bearings**—Standard Hyatt Roller.

**Gears**—Triple-pawl ratchet.

**Material and Finish**—Highest class.

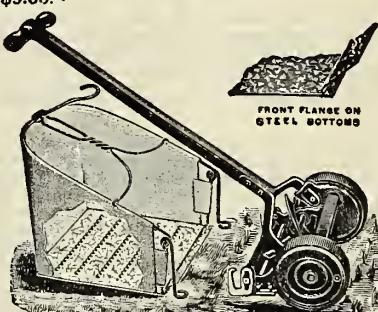
**Prices**: 15 in. \$20.00; 18 in. \$22.00; 21 in. \$22.50.

**M. & S. SWIFT CUTTER**

A low-priced machine for small grass plots, not ballbearing, fully guaranteed.

**Prices**: 12 in. cut \$7.00; 14 in. \$8.00; 16 in. \$9.00.

**FRONT FLANGE ON STEEL BOTTOMS**

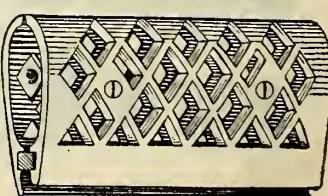


**M. & S. Easy Grass Catcher.**

**ECONOMY GRASS CATCHER**—A good make, but lighter than the Easy. Construction similar, fits any mower from 12 to 17 inches. **Price**, \$1.00. Parcel post weight, 5 lbs.

**OVERHAULING AND SHARPENING OF LAWN MOWERS**—The best time for this is, before the actual time of lawn mowing has come. Let us do this for you. We call for and deliver the work.

**M. & S. LAWN MOWER SHARPENER**—Can be adjusted for any thickness of blade and when properly set will give a uniform bevel, the sharpener following the twist of the knife. It will also sharpen the under blade or dead knife. **Price**, 75c each, postpaid.



## M. & S. FARM AND GARDEN TOOLS

SENT BY EXPRESS OR FREIGHT, DUE TO LONG HANDLES.

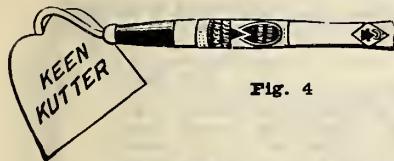


Fig. 4

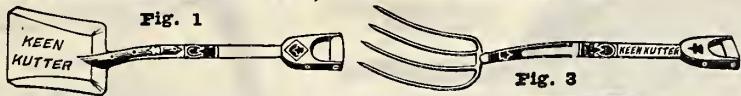


Fig. 1



Fig. 9



Fig. DE 38



Fig. 3

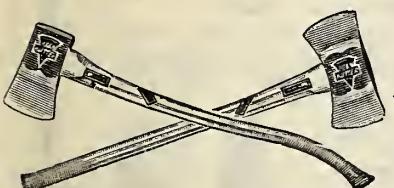


Fig. 13



Fig. 22

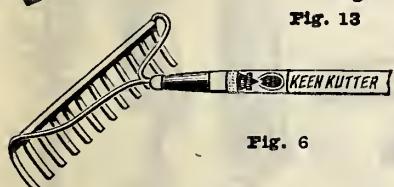


Fig. 6

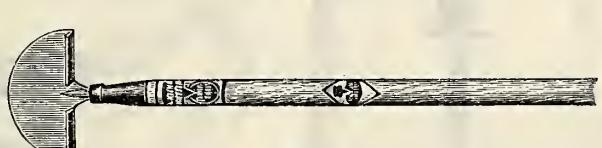


Fig. 11

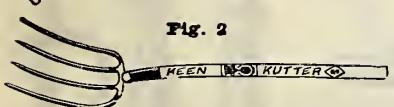


Fig. 2

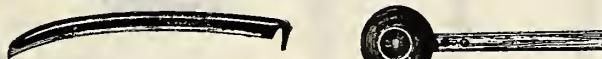


Fig. 10



Fig. 23



Fig. 8.



Fig. 18

### Garden Tools, Shovels, Rakes, Etc.

Shovel, Keen Kutter Round Point Long Handle—\$2.25.

Shovel, Keen Kutter Sq. Point D Handle No. 3—\$2.25. Fig. 1.

Spade, Keen Kutter D Hdle—\$2.25. Fig. 22. Long Hdle, \$2.50.

Spade, D. Hdle. Nursery—Double strapped, \$4.50.

Spade, Boys' or Ladies', Ames, \$1.25.

Forks, Keen Kutter—3-tined Hay Fork, \$1.75.

4-tined Hay and Manure—Long handle, \$1.75. Fig. 2.

4-tined Manure—D handle, \$1.75. Fig. 3. Heavy Fork, \$2.50.

4-tined Spading Fork—Fig. 23. D handle. \$2.00.

Hoes, "Keen Kutter"—Fig. 4. Crucible steel. 6½ and 7½ in. \$1.25; 1-pronged, weeding hoe, 60c; 2-pronged, 70c.

Pick, "Keen Kutter"—Fig. 9. Price, \$1.50; with handle, \$1.90.

Ax, "Keen Kutter"—Guaranteed article. \$2.25. Fig. 13.

Hatchets, K. K.—Half Pattern. Best quality. Each, \$1.75.

Mattock, "Keen Kutter"—Price, \$1.50; with handle, \$1.90.

Mattock or Grub Hoe—Price, \$1.25; with handle, \$1.65.

Mattock, Pick and Ax Handles—Price, 40c each.

Grubbing Hoe, One-Piece—Extra strong, Fig. No. DE 38, \$1.50.

Potato Hoe, or 4-pronged Hoe—Price, \$1.25.

Hoe, English Scuffle—6 in. \$1. No handle. Handle, 35c extra.

"Keen Kutter" Ladies' and Children's Garden Tool Set—Fig. 8. Not toys, but tools that will do and stand the work. Price, \$3.00. Single tools: Shovel, 90c; Rake, 60c; Hoe, 75c; Spading Fork, \$1.00.

Planet Jr. Edger, No. 2—Fig. 18. Made of best material, extremely simple and easy to operate. Price, \$1.75, weight 4 lbs.

"Keen Kutter" Turf, or Lawn Edger—For edging walks. Price, \$1.25. Fig. 11. See foot rest.

Rake, "Keen Kutter"—Bow Pattern. Fig. 6. 14-tooth, \$1.50.

Rake, "Keen Kutter"—Regular pattern, 16 tooth. Price, \$1.25.

Rake, Wire Lawn—Heavily reinforced, best made, 24 teeth. Fig. 13. \$1.00; 46 teeth, \$1.75; 24 teeth self cleaning, \$1.75.

Rake, Lawn—Ole Olson. All wood, 26 teeth, \$1.00.

Bush Hook, "Keen Kutter"—Fig. 21. Price, \$2.00.

Scythes, Grass—30, 32 and 34 inches long. Price, \$2.00.

Scythe, Weed and Bush—18, 22, 26, 28 inches long. Price, \$2.00.

Sythe, Grass—Imported. Riveted back. 32, 34, 36 in., \$2.75.

Snares—Light and heavy. Price, \$1.75.

Whetstones—Carborundum, 35c. Talacre Stone, 25c each.

### YAMADE

JAPANESE BROOM RAKE — An ingenious device for cleaning the debris out of a lawn or grass plot, leaving it as free from refuse as though swept with a broom. In fact, to get the best results it should be used with the motion of a broom. Made of split bamboo, rigidly secured, with a suitable length handle. Just the thing for cleaning grass clippings from walks and flower beds and borders, and from the lawn. Price, \$1.00 each; 10c extra for postage.

LIGHTNING SNOW PUSHERS — Effective, durable, practical. Best steel. 20 inch \$1.75; 24 inch \$2.00.



### Norcross Cultivators and Weeder

Three sizes and prices.

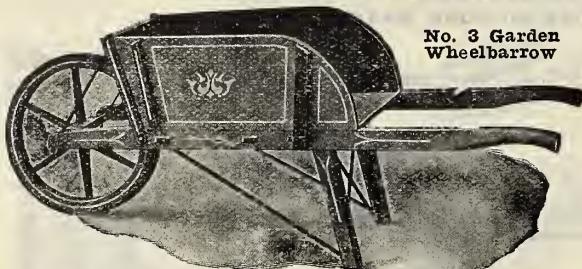
Fig. 14, 5-pronged, 4 ft. handle, \$1.15; 3-pronged, 4-ft. handle, 85c; "Midget," 9-in. handle, 45c. Weight, 3 lbs., 2 lbs., 12 oz.



THE MARK OF QUALITY

Mehler Handy Gardener—Long handle, five prongs. \$1.25.

# M. & S. LAWN AND GARDEN ACCESSORIES



No. 3 Garden Wheelbarrow

No. 3 Wheelbarrow, for Garden and Farm Use—A durable, neat garden barrow. Size of body, 26 in. long, 19 in. wide in front, 22 in. wide at back. Sideboards, 27 in. long, 12 in. high; handles, 4 feet 9 inches long; 2x1½ in. wheel; 20 in. diameter; 6 spokes. Price, \$7.50; set up, \$8.00.

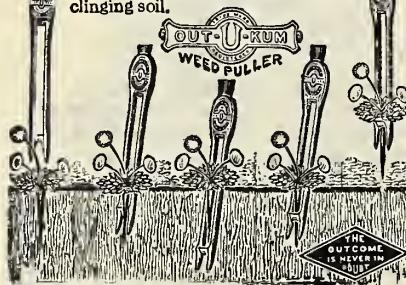
## THE "OUT-U-KUM"

### WEED PULLER

An Entirely New Principle

A slight Push and Pull thoroughly loosens the surrounding soil and removes not only the weed, but the entire root.

When pushed into the ground, the two points guide the BRIDGE down alongside the weed, loosening the soil from that side. It then crosses under the root disengaging the latter. As the tool is withdrawn the BRIDGE slips up the opposite side of the weed, loosening the ground from that side and engages the head of the weed above the ground. The now thoroughly loosened weed is readily withdrawn in its entirety with little or no clinging soil.



Price, 75c. Parcel post weight, 2 lbs.

Thistle and Dock Cutter—Fig. 18. Price, \$1.50.

Asparagus Knife — Which makes a fine weeder as well. Fig. 17. Price, 40c. Weight, 1 pound.

Wonder Dandelion Digger—50c. postpaid.

"Dandelion" Spuds—A practical weeder; long handle. Price, 25c. Eureka Garden Weeder—Fig. 11. 50c. Parcel Post weight, 1 lb. Same with 2 ft. handle, 60c. Parcel Post weight, 2 lbs.

Garden Fork or Weeder—Fig. 24. 50c. Weight, 1 lb.

Dibbles, or Planting Pegs—Bent wood handle. 65c. Weight,

1 lb. Fig. 20.

The above three items are illustrated in the opposite column.



Kneeling Pads—Found most convenient and serviceable for many uses, in gardening and housekeeping. Made of best Para rubber, \$1.50 postpaid.



### Raffia

Fig. 21. For tying asparagus, and used extensively for tying roses, chrysanthemums or anything in the garden. Price 1b. 25c. Hanks contain about 2½ lbs.; 25 lbs. or more, at 20c lb. Special price on larger quantities.

Fig. 21.

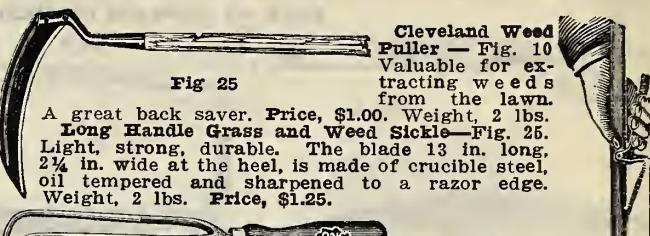


Fig. 25

Cleveland Weed Puller — Fig. 10. Valuable for extracting weeds from the lawn. A great back saver. Price, \$1.00. Weight, 2 lbs. Long Handle Grass and Weed Sickle—Fig. 25. Light, strong, durable. The blade 13 in. long, 2½ in. wide at the heel, is made of crucible steel, oil tempered and sharpened to a razor edge. Weight, 2 lbs. Price, \$1.25.

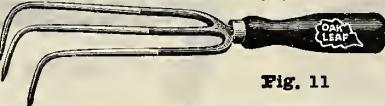


Fig. 11

Fig. 20

### Grass Hooks or Sickles.

No. 1—Best grade. Can be taken apart very handy. Parcel post weight, 2 lbs. 75c.

No. 2—English Grass Hook. Solid back. Price, 65c.

No. 3—Somewhat larger. Price, 75c. Weight of either, 2 lbs.

No. 4—Good all-round grade.

Parcel post weight, 2 lbs. 50c.

German Grass Hook No. 2. Very durable; good material. 40c each, 2 lbs.

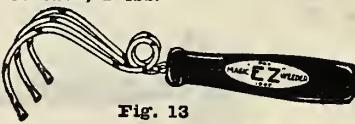


Fig. 13



Fig. 21



Fig. 15

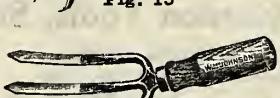


Fig. 22



Fig. 23



Fig. 24

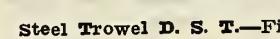


Fig. 10.

Steel Trowel D. S. T.—Fig. 21. Drop Shank, best made. \$1.00, 2 lbs.

Steel Trowel S. S. T.—Straight Shank, best made, \$1.00, 2 lbs.

No. 212 One-Piece Trowels—50c. Fig. 22. P. P. weight, 2 lbs.

No. 215 Good, Strong 7-Inch Trowel—Fig. 23. Price, 25c. Parcel Post weight, 1 lb.

No. 217 Transplanting Trowels—Fig. 19. 6 inch. Weight, 1 lb. Price, 25c.

Magic "EZ" Weeder—Fig. 13. No. A—Price, 15c. Parcel post weight, 1 lb. No. D—Large size, 4-tined with hoe or scraper on back. Price, 45c. Parcel post weight, 2 lbs. Style H—4 ft. handle, 3 heavy tines and blunt blade, \$1.10. Style K—4 ft. handle, 3 heavy tines and V-blade, \$1.10. Above two parcel post weight, 3 lbs.

Excelsior Weeder—Five teeth. Fig. 15. Price, 20c. Wgt. 1 lb.

### TRUE TEMPER BROOM RAKE



A general outdoor broom for lawns, gravel paths and gardens is a practical necessity for every residence. The Brume-Rake is a strong and durable tool, designed for clean work and hard service. Teeth of tempered clock spring steel insure long life. A Brume-Rake will outlast several of the fibre or imported bamboo types. They have already become popular on the Pacific Coast, where bamboo rakes were once widely used. The teeth are flat, and being placed close together make a clean swath with each stroke. They do not puncture leaves which they strike nor delay the user with frequent cleaning. The rake is just as wide as it can be made without striking the shoes of the user while making a comfortable sweep. If any wider, the rake would require an unnatural position or be constantly touching the shoe tips in passing. Price, \$1.00; postpaid, \$1.10.

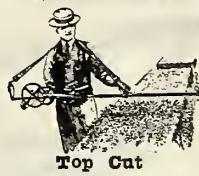
# THE "LITTLE WONDER" HEDGE AND LAWN TRIMMER

## THE "LITTLE WONDER" HEDGE TRIMMERS— HAND AND ELECTRIC MODELS

The machines are built along the most practical mechanical lines and of the best materials obtainable.

The "LITTLE WONDER" Hedge Trimmer cuts every variety of hedge grown, 5 to 10 times as fast as by hand. Wonderful testimonials from owners.

Saves you money every time it trims a hedge. The bigger the hedge, the bigger the saving.



TOP CUT

Will trim a hedge to any shape and cut wanted, various attachments and adjustments being provided for each type.

### Prices Hand- driven Electric

30 in. size Hedge Trimmer ..	\$25.00	\$103.00
40 in. size Hedge Trimmer ..	27.50	106.50
60 in. size Hedge Trimmer ..	35.00	114.00
Side Cutting Carriage for Hedge Trimmers .....		4.50
Lawn Clipper Attachment for Hedge Trimmers .....		18.00
30 in. size Lawn Weed Clipper, complete .....		35.00
40 in. size Lawn Weed Clipper, complete .....		40.00

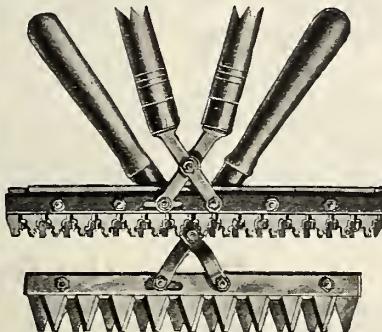
Side Cut

## Simplicity Hedge Trimmer For Fresh New Growth Only

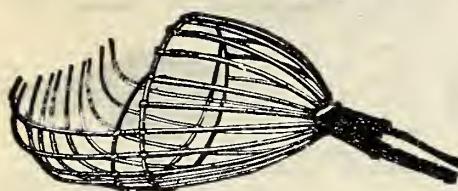
Simplicity cuts both opening and closing. Think of it! What a time and energy saver this is, with each complete movement of your hands you save 20 jolting, blistering and tiresome wacks the old pruner or lopping shear way.

The Simplicity Pruner and Trimmer can also be used for trimming with excellent results. Many home users have chosen it to do all their trimmings.

Pruner and Trimmer, \$6.00, postpaid; Trimmer, \$4.00, postpaid.



Fruit Picker



This cut almost speaks for itself, the device, being so much like the human hand, shows at once the utility of the article. As a Fruit Picker it has no superior. It is made of heavy wire, and easily adjusted to a pole. Price 40c. 50c postpaid.

Grass and Sheep Shears



Fig. 18.

No. 346—Imported very good steel, 5½ in. Price, 50c. Weight, 1 lb.

No. 355—Fine polished; 5½ inch shears. Weight, 1 lb. Price, 75c.

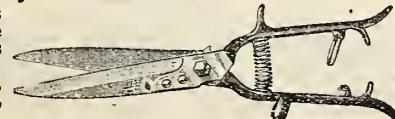
No. 3074—Imported 5½ inch steel shears, full polished. Price, \$1.25. Weight, 1 lb.

No. 3075—The best shears; made of high tempered English steel. \$2.00 Parcel post weight, 1 lb.

## Latest Style Grass Shears

No. 500—Wiss Grass Shears or Nippers. The latest thing in hand grass cutters. \$1.50, postpaid.

No. 117—Like above, but lower grade. \$1.00, postpaid.



## M. & S. Water Ballast Lawn and Tennis Court Rollers

The proper roller for most any occasion; fill it with water or sand, which will weight it any number of pounds desired. Handle always in position ready for use; roller axle bearings. You can make it as heavy or as light as you wish. The drum can be filled with an ordinary garden hose, when through for the season pour the water out and the roller is easy to put away.

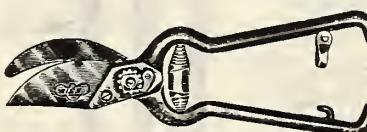


	Diam.	Length	Weight	Filled with	Price.
	In.	In.	Empty.	Water.	Lbs.
No. 601 .....	14	24	60		\$15.00
No. 602 .....	18	24	75		18.00
No. 603 .....	24	24	110		21.00
No. 604 .....	24	32	115		24.00

Cast Steel Roller Bearing Lawn Roller—To raise a velvety, thick lawn and keep it so the lawn-roller is a great aid. In the spring, after a season of freezing and thawing, the ground becomes uneven and porous, and receding, from the grass roots. No. 501—Diam. 15 in., 2 sec., weight 175 lbs., length 15 in., \$18.00. No. 504—Diam. 20 in., 2 sec., weight 250 lbs., length 20 in., \$24.00. No. 507—Diam. 20 in., 2 sec., weight 300 lbs., length 24 in., \$28.00.

## Hand Pruning Shears

No. 109 Wiss Hand Pruner—Strongest and best pruner made. \$3.00, postpaid.



No. R-65, 9-inch—Full polished with ratchet and double flat brass spring. Weight, 2 lbs. Price, \$1.75.



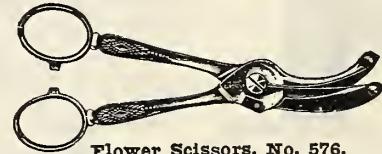
No. R-70, 9-inch—Similar to illustration, with adjusting nut and regulating ratchet, steel blades of extra quality steel.

Price, \$1.50. Parcel Post weight, 2 lbs.

No. 50, 9 inch—A good pruner; weight, 1 lb. 90c.

No. 14, 6 inch—Ladies' pruner, full polished, \$1.25. Parcel Post weight, 1 lb.

Flower Scissors No. 575—Nickel plated. \$1.50.



Flower Scissors, No. 576.

No. 576—Imported, best finished, sure to hold flower after being cut. \$2.00, both postpaid. As illustrated.

Solid Steel Hedge Shears—12 in. All equipped with notch; the notch is very useful in heavy trimming or lopping. Handles bolted on, cannot come apart. Parcel post weight on all hedge shears, 3 lbs.

8-inch.....\$2.25      9-inch.....\$2.50

10-inch.....\$2.75      12-inch.....\$3.50

Ladies' Hedge Shears—5½ inch cut. Price, \$1.50. Parcel post weight, 2 lbs.

Lawn Shears, Imported—Two wheels, 9-inch blade, long handle for cutting on narrow borders, under fences and shrubs. Price, \$4.50. Parcel post weight, 5 pounds.

Border Shears—Same as above, but the blades are shaped vertical for trimming borders. Price, \$4.25. Parcel Post weight, 5 pounds.

Godwin's Grass Shears—Fig. 18. They allow the operator to hold them in any easy natural position (as shown in engraving), thereby relieving strain which accompanies the use of the old model shears. Price, \$2.00. Parcel post weight, 2 lbs.

## M. &amp; S. PRUNING TOOLS, ETC.

## Rhodes Double-Cut Lopping Shears

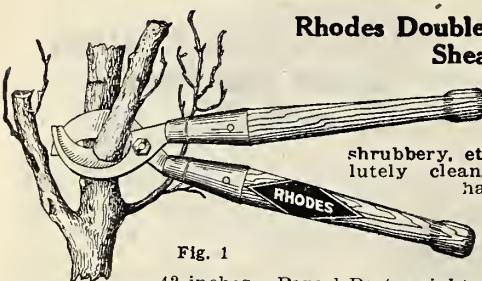


Fig. 1

42 inches. Parcel Post weight, 10 lbs. Price, \$6.50.

**THE RHODES DOUBLE-CUT HAND PRUNER**  
The finest cutting pruner made. Solid tool steel. Piano wire spring insuring long life. Catch used on our Hand Shear cannot pinch the hand or lock while in use. Made in one size; length, 9 inches. Price, \$4.50, postpaid.

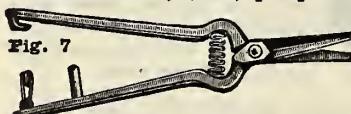


Fig. 7

Grape and Flower Shears—  
Fig. 7. Very useful. Price, 50c each. Parcel Post weight, 1 lb.



Fig. 24

## "McKenney Pruner"

Made in two sizes: No. 1 and No. 2. The No. 1 cuts limbs up to 1 inch in diameter.

The No. 2 cuts limbs up to 1½ inch in diameter. Splendid for dehorning young cattle.

Weight. Length. Price.  
No. 1 ..... 2 lbs. 23-inch. \$4.50  
No. 2 ..... 5 lbs. 30-inch. 6.00  
"Keen Kutter" Pruning Shears—Curved blade and hook. Forged steel; polished and tempered, ratchet tightening knot; extra heavy and long steel ferrules; handles riveted through ferrules and tang; 24-inch hardwood handles. Price, \$2.50. Parcel post weight, 4 lbs.

Draw Cut Pruning Shears—Made of best material, very strong and clean cutting. No. 5400—24-in. handle, \$3.25. Parcel post weight on both, 5 lbs.



No. 1 Head in Detail.

**THE RHODES POLE PARAGON PRUNING SAW**—For cutting large limbs high up; adjustable to any angle; 10-foot pole. Price, \$4.00. Express or freight.

Pruning Knife, No. 1—Wood handle. \$1.10, Fig. 8

postpaid.

Pocket Knife, No. 24278—Double blade;

spey and budding; bone handle.

\$1.25, postpaid.

No. 11 Budding Knife. Spey blade or budding blade, ivory handle. Price of either, \$1.00, postpaid.

Pruning Saws—Made of the very best material, either double or single cutting edge, \$1.75. Fig. 8. Weight, 2 lbs.



Regular Thermometer—Nicely finished. Price, \$1.00.  
Self-Regulating Hothouse Thermometer—Best grade, \$7.00.  
Hotbed Thermometer—Brass point. Fig. 8. Price, \$3.00.  
Parcel Post Weight, 1 lb. on any of the three listed.

## The Rhodes Double-Cut Pole Pruner



Light and strong. A necessity in every orchard. Pole, 10 feet long. Fig. 25. Price, \$8.00. Express or freight.

Fig. 25

**THE RHODES SPECIAL POLE PRUNER**—This Pruner is made with a jointed pole of three 6-foot sections. For linemen and forestry use. Price, \$12.00.

## Straw Hot Bed Mats and Shrubbery Protectors

Straw Shrubbery Mat—Each \$1.50.

Straw Hotbed Mats. 3x6 ft. Each \$2.25.

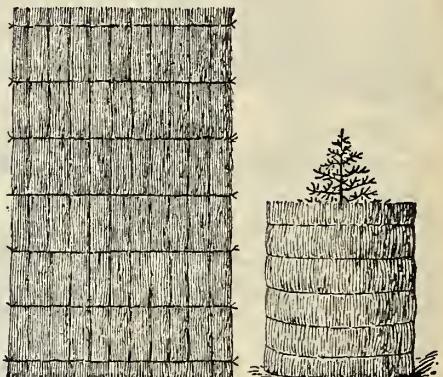
Straw Hotbed Mats. 6x6 ft. Each \$3.50.

Straw Mats for windbreaks and evergreen protectors. Any size made to order, 20c per sq. ft.

**GRAFTING WAX**  
—¼ lb. 15c; ½ lb. 25c; 1 lb. 40c.

**Hot Bed Sash**—

Made to hold either 24 or 28 8x10 pans. These sashes are grooved so that the panes slide in and butt one against the other. \$2.25 each. Price subject to change. Express or freight.



## Burlap Hot Bed Mats

**Hotbed Mats**—Burlap covered, 40x76 size, covers one sash. \$2.00 each; 76x76, covers two. \$3.25 each. Price subject to change. Express or freight. Fig. 23.



Fig. 23

**Hotbed Glass**—Box of 90 panes, 8x10. \$3.00. Price subject to change. Express or freight.



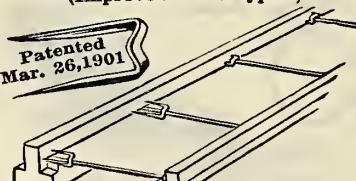
Fig. 22

**Putty Bulbs**—For applying liquid putty. Fig. 22. Price, \$1.50. Parcel Post weight, 1 lb.

**Twemlow's Old English Glazing**

**Putty**—Semi-liquid. For bedding-glass in sash and filling cracks or seams in roof joints or frames of hotbed or greenhouses. Gallon, \$2.50. Weight, 18 lbs.

**Peerless Glazing Points**—The finest glazing points on the market. Per box of 1,000, 75c. Parcel Post weight, 1 lb.



**Mastica Machine**—For distributing mastica, etc. Made of heavy zinc. Price, \$2.75 (by mail, 10c extra).

**Mastica**—For glazing greenhouses. One gallon will cover about 300 running feet. One gallon \$2.25. Weight 18 lbs.

## ASBESTOS TORCH

This is the most practical satisfactory device yet found for burning caterpillars, worms and other tree pests. It is a black tinned ball, filled with asbestos fibre, so constructed that it can easily be attached to any pole. Dip the torch in kerosene and light. Price, 60c; postpaid, 70c.



## PLANET JR. FARM AND GARDEN TOOLS

Are the greatest savers of time, labor, and money ever invented for the farm and garden. They pay for themselves in a single season in bigger and better crops, and last a lifetime. Fully guaranteed.

### Planet Jr. No. 4 Combined Seeder and Cultivator

This tool combines in a single implement, a first-class hill-dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator, and a plow. It holds two quarts and sows in continuous rows, or drops in hills 4, 6, 8, 12 or 24 inches apart. The index is accurate, simple and easily set. The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe. Price, \$18.00, 50 lb.

No. 4-D (As a Seeder only), \$14.25, 40 lb.

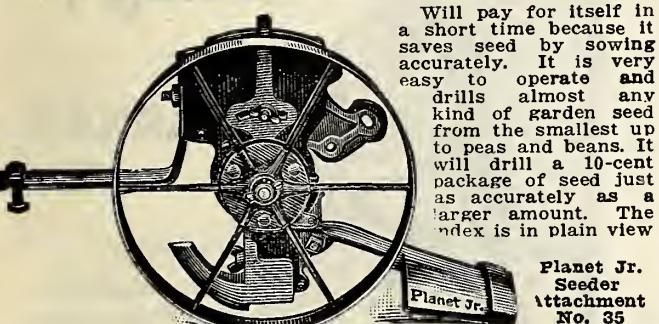


### No. 25 Combined Seeder, Double and Single Wheel Hoe

As a seeder this tool is the same as No. 4 described above but when used as a cultivator it can be set up either as a double or single wheel hoe. Has steel frames and straddles crops until 20 inches high. Two acres a day can easily be worked, and when it is done, it will be a better job than several men could have done in the same time with hand hoes. The most complete of the interchangeable tools. Price, \$21.50, 61 lb.



### The Planet Seeder Attachment No. 35



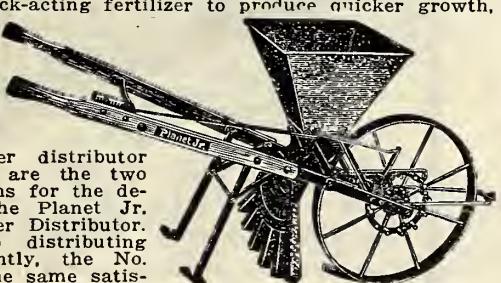
Will pay for itself in a short time because it saves seed by sowing accurately. It is very easy to operate and drills almost any kind of garden seed from the smallest up to peas and beans. It will drill a 10-cent package of seed just as accurately as a larger amount. The index is in plain view

Planet Jr.  
Seeder  
Attachment  
No. 35

and easily adjusted. The shoe is adjustable for any depth desired and the cover swings free. Attaches to any Planet Jr. Hand Cultivator. Sent postpaid. Price, \$6.50.

### No. 220 Planet Jr. Fertilizer Distributor

Saves fertilizer, time and labor and produce bigger, earlier crops. The vital importance of side-dressing vegetable crops with a good quick-acting fertilizer to produce quicker growth, more tender vegetables, and get those vegetables on the market earlier when prices are better; and the need of an efficient fertilizer distributor for this work, are the two important reasons for the development of the Planet Jr. No. 220 Fertilizer Distributor. In addition to distributing fertilizer efficiently, the No. 220 will give the same satisfactory service for many years. Send for special circular.



### Star Pulverizer, Weeder and Cultivator

An improvement over the old style pulverizer. 50% lighter and very easy to handle. The star discs break up the soil and the oscillating blade—which works forward and backward—pulverizes and levels the soil, and at the same time cuts off the weeds directly beneath the surface. Can be used right after a rain to cultivate, and will not leave the ground in a lumpy condition. 6 lbs.

Price, \$3.25



### Planet Jr. No. 12 Double and Single Wheel Hoe Combined

A double and single wheel hoe in one. Has steel frames, 14-inch steel wheel with heavy steel spokes and straddles crops until 20 inches high. Then can be worked between rows with one or two wheels. Does the work of six men with ordinary hand hoes. The attachments will all be found useful from the beginning to the end of the season. Price, \$10.75, 33 lbs.

**No. 11 PLANET JR.**—Like the above, but in addition has one pair 4½ inch hoes, two 3-tooth rakes and two 5-tooth rakes. Price, \$13.75, 39 lbs.

**No. 13 PLANET JR.**—Only equipped with one pair of 6-inch hoes. Price, \$8.00. The No. 12 is the most popular tool. 28 lbs.

### Planet Jr. No. 16 Single Wheel Hoe

These single wheel hoes are the highest type of their class. They have a great variety of attachments which adapt them to a large variety of work, and there is scarcely any garden cultivation they will not do. Nos. 16 and 17 have the same steel wheels, frames and handles, but the attachments sold with each vary. The handles are adjustable in height. The frame is steel, convenient and strong with a simple device by which to exchange the tools without removing the nuts. All attachments are of a special pattern, carefully tested by practical men; no others ever offered compare with them. All the steel parts are high carbon steel, oil tempered and specially hardened, finely formed, finished and polished and work to a charm. Price, \$9.00, 24 lbs.

### No. 17 Single Wheel Hoe.

**No. 17 PLANET JR.**—Same as No. 16, but has no rakes or leaf lifter. Price, \$7.75.

**No. 17½ PLANET JR.**—Equipped with hoes and

leaf lifter. Price, 6.75. Weight 21 lbs.

**No. 18 PLANET JR.**—Only equipped with one pair 6-in. hoes. Price, \$5.75. Weight 19 lbs.

**No. 19 PLANET JR.**—Similar to above, but has higher wheel (15 inch), equipped with cultivator tooth, sweep, plow and 5 prgd. cultivating attachment. Price, \$6.00. Weight 21 lbs.

### No. 119 Planet Jr. Garden Plow and Cultivator

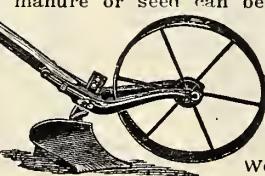
This new member of the "Planet Jr." family is equipped so completely that it will meet all the needs of the ordinary garden. It has a 24-inch wheel, 1½ inch wide. The plow is very strong, the cultivator tooth is good and wide, the 3-pronged Cultivator is excellent for breaking of the soil, the center tooth of same is removable, the scuffle hoe fine for weed cutting and the handles very strong and adjustable to suit adult or child.



Price, complete,  
\$4.75  
Weight 17 lbs.

### "Firefly" Garden Plow

Very useful for small gardens. Will throw a furrow 4 to 6 inches wide and 1 to 3 inches deep, and deeper by going twice. Furrows for manure or seed can be opened and covered. Chicken raisers find it of great advantage in plowing up the scratching yards.



Weight, 14 lbs.  
Price, \$4.25.

**72-PAGE PLANET CATALOG FREE**  
Describes 70 tools, including Seeders, Wheel Hoe, Horse Hoe, Harrows, Orchard and Beet Cultivators. Write postal for it.

## Planet Jr. One Horse Cultivators and Harrows

### No. 100-D Planet Jr. Plain Cultivator

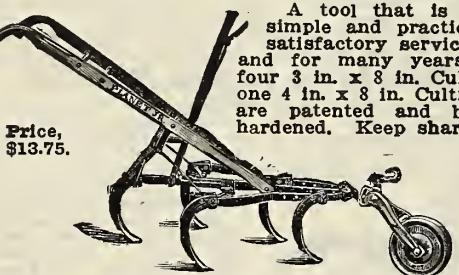
We offer this cultivator with the object of filling a definite need where lands are light or where farming is done on a modest scale. It weighs but 42 pounds. It will stand hard usage and do excellent work. A steady running tool and easy to handle and adjust. Weight, 42 lbs. Price, \$8.25; with wheel, \$10.00.

**No. 107D**—Similar to the No. 100D but has seven teeth and lever expander. Price, \$11.75; with wheel, \$13.50.



No. 100  
Cultivator  
with Cast  
Wheel,  
\$10.00.

### No. 9 Planet Jr. Plain Cultivator



Price,  
\$13.75.

A tool that is light and strong, simple and practical, and will give satisfactory service year after year, and for many years. Equipped with four 3 in. x 8 in. Cultivator Steels and one 4 in. x 8 in. Cultivator Steel, which are patented and beveled; especially hardened. Keep sharp and add 50% to the wear. Tool is adjustable to any useful width by use of the lever expander, and every part is perfected to make the tool acceptable to the farmer who does

not want to have to buy a cultivator every few years.  
Same tool without wheel, \$11.75.

### No. 4 Planet Jr. Horse Hoe and Cultivator

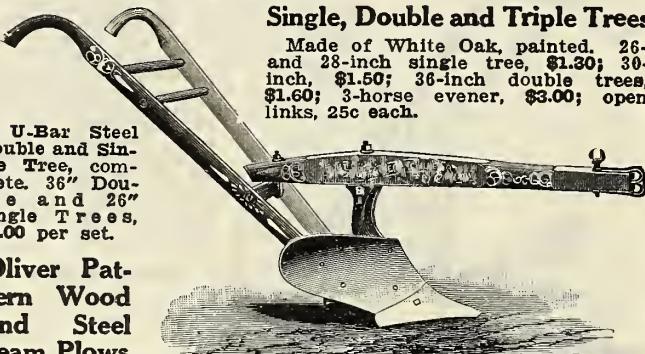
This tool is low in price, strong and simple. It is the modern cultivator for either garden or field use, for furrowing, covering and cultivating. Price, with steel wheel, \$13.50; without wheel, \$11.50.



No. 4 Horse Hoe

**No. 9 PLANET JR. HORSE HOE AND CULTIVATOR**—Identical with the above, but has lever expander. Price, with steel wheel, \$15.50; without wheel, \$13.50.

**No. 7 PLANET JR. HORSE HOE AND CULTIVATOR**—Same tool as No. 4 and No. 9, but is also equipped with depth regulating level wheel. Price, \$17.00.



### Single, Double and Triple Trees

Made of White Oak, painted. 26 and 28-inch single tree, \$1.30; 30-inch, \$1.50; 36-inch double trees, \$1.60; 3-horse evener, \$3.00; open links, 25c each.

### Oliver Pattern Wood and Steel Beam Plows

	Wood Beam Plow	Steel Beam Plow	Slip Shares	Lands	Mould-boards	Wood Beams	
No. A	\$10.50	\$10.50	\$0.35	.....	\$0.70	\$2.10	\$3.85
No. B	12.75	12.75	.45	.....	1.00	2.75	3.85
No. 10	16.00	16.00	.60	.75	1.05	3.00	3.85
No. 13	18.00	18.00	.70	.85	1.25	4.00	3.85
No. 19	19.50	19.50	.75	.90	1.35	4.25	4.15
No. 20	21.00	21.00	.85	1.00	1.40	4.50	4.15
No. E	24.00	24.00	.85	1.05	1.45	5.00	4.15
No. 40	24.00	24.00	.90	1.05	1.45	5.00	4.15

In ordering, mention "Wood" or "Steel" beam, right or left hand.

Single Handles, \$1.00 each. Rounds, 25c a pair.

Bolts for Mouldboard, Landside, Shares and Jointers, 5c each.

Prices for plows include extra Share and Wrench. The following are extra: Wheel, complete, \$2.00; Jointer, complete, \$4.50; Steel Beam Jointer, \$4.50. State if Wood or Steel Beam.

We can also furnish the "Syracuse" and other leading plows and the repairs. Prices will be furnished upon application.

### Planet Jr. Twelve-Tooth Harrow Cultivator and Pulverizer

No. 90, complete, \$18.00; No. 90-E, without pulverizer, \$14.75; No. 90-D, without pulverizer or wheel, \$11.75.

### SHOVEL PLOWS

Single Shovel Flow, \$4.20.

Double Shovel Flow, \$4.60.

Triple Shovel Flow, \$6.60.

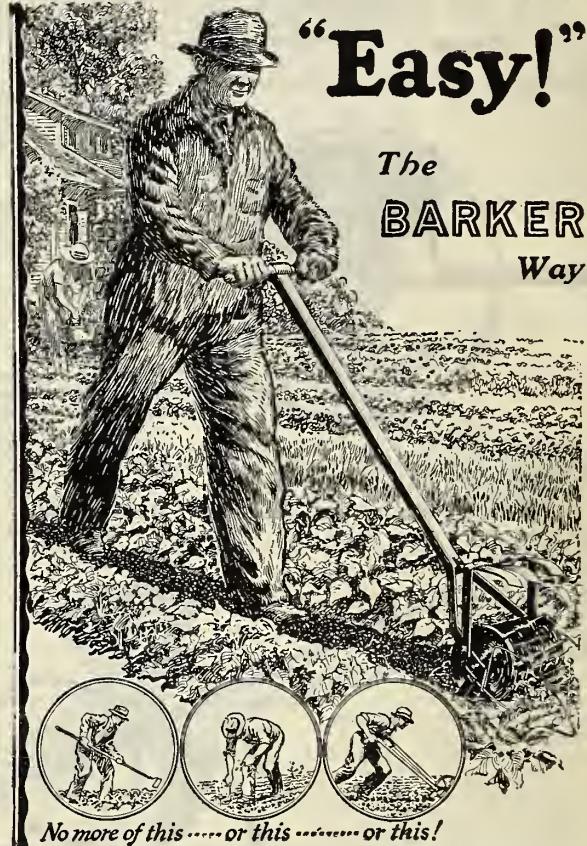
Blades for same, 16c lb.

Planet Jr. Cultivator Teeth.

1 1/4 x 8 in. Steels .....	.17	3 x 8 in. Steels .....	.22
1 1/4 x 8 in. Steels .....	.18	4 x 8 in. Steels .....	.27
2 1/4 x 8 in. Steels .....	.20		

"Planet Jr." 7-inch Hind Shovel, 35c; "Planet Jr." 8-inch Hind Shovel, 40c. Bolts for all Cultivator Teeth at 50c each.

### The Barker Weeder, Mulcher and Cultivator



No more of this ..... or this ..... or this!

**No. 8 1/2-D**—For use in onions, and the family garden. Women and young gardeners find this size very easy to handle. It weeds and mulches a strip 8 1/2 inches wide. Has three shovels, and leafguards. Price, \$10.60.

**No. 10-D**—Strong, and most useful size. Lower knife cuts ten-inch strip. Favorite for large gardens and with truck growers. Equipped with three shovels, and leafguards. Price, \$11.75.

**No. 11-D**—Especially adapted for use where rows are fifteen inches or more apart. Weeds and mulches eleven-inch strip. Has three shovels, and leafguards. Price, \$12.60.

**No. 12-D**—Best size where rows are two or three feet apart. Weeds and mulches a strip one foot in width. Has three shovels, and leafguards. Price, \$13.45.

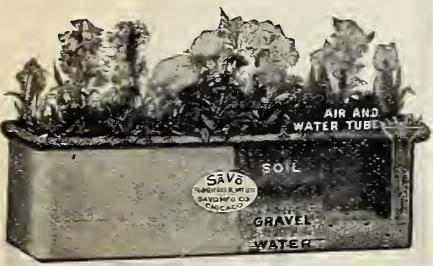
The Success Plant Box is made of strong galvanized iron, neatly enameled in dark green. It is so constructed that the watering is easy, the drainage ample, the air circulation perfect.

Plants thrive wonderfully in these boxes. For window or porch use they are ideal, as, unless excessively over-watered, there is no drip. No staining of paint or disfiguring in any way.

	Length Inches.	Width Inches.	Depth Inches.	Weight Pounds.	Each.
Flower Boxes .....	24	8½	6¼	6	\$1.50
Flower Boxes .....	30	8½	6¼	7	1.75
Flower Boxes .....	36	8½	6¼	8	2.50

#### Brackets for Window Boxes

	Per Pair.	Pounds.
No. 1—For setting on sill.....	\$0.80	3
No. 2—For hanging under sill.....	1.00	3
No. 3—For the porch rail.....	.50	1



Model A—8 in. high, 9½ in. wide, 23 in. long.....	\$ 3.00
Model B—8 in. high, 9½ in. wide, 29 in. long.....	4.00
Model C—8 in. high, 9½ in. wide, 35 in. long.....	4.50
Model D—8 in. high, 9½ in. wide, 41 in. long.....	5.00
Model E—8 in. high, 12 in. wide, 12 in. long.....	3.00
Model F—12 in. high, 12 in. wide, 12 in. long.....	3.50
Model G—with stand, 30½ in. high.....	12.00
Model H—with stand, 12 in. diameter, with stand 28½ in. high.....	6.00

These are outside measurements, including the ¾-inch roll rim. Beautifully finished in Aluminum or Dark Green.

#### Japanese Hull-less Pop Corn

There is hardly a home in the country where during winter popping of corn is not a pastime. Not all Pop Corn is the right kind for popping. What we offer can be relied upon for planting or popping.

Lb. 15c. Special price in quantity.

M. & S. All Wire Corn Popper—25c. Parcel post weight, 1 lb.



#### Rat and Mouse Traps



Victor Rat Traps—10c, postage 5c.  
Victor Mice Traps—3, 10c, postage 5c.  
Wire Cage Rat Traps—The kind that catches them alive. \$1.00 each, postpaid.  
The Faultless Rat Trap—This trap will catch and kill them every time. 50c each. Parcel post weight, 1 lb.

#### Horn Seed Sower

Will spread seed evenly from 30 to 40 feet. Method of sowing is by swinging tube in horizontal position from right to left which closely resembles the old method by hand. Gives control over seed on a circle of 8 feet before it leaves the tube and the wind has no chance to blow seed into bunches before it strikes the ground. Price, \$1.00, postpaid.



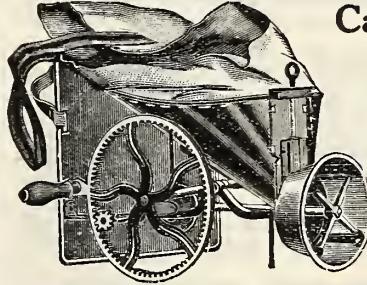
#### The Cyclone Seed Sower

It differs materially and very advantageously from all other Sowers in having a slope feed-board with an oblong hopper which terminates in a metal edge, on which edge oscillates a feed plate which does not allow the seed to become clogged, but makes a positive force feed and insures a uniform flow and even distribution of seed. Anyone desiring a convenient, practical and an all-round first-class grain and grass seeder, a good, large sower that will meet the most exacting demands, we recommend the Cyclone. Price, \$2.25; postpaid, \$2.50.



#### Cahoon Seed Sower

For sowing Grasses, Clover, Timothy, Millet, Oats, Wheat, Barley, Rye, Buckwheat, etc. Standard Seeder of the World—A Model for Accuracy and Durability—Malleable Iron Frame—Steel Hopper and Gate Brass Dis-charger.



Price, \$5.00,  
postpaid.

SEGMENT CORN PLANTER—Sliding Feed. Price \$2.50. Parcel Post weight, 6 lbs.

Picking Baskets—½ bushel size, 45c each.

White Oak Baskets—Side handled, 1 bushel \$1.40.

Splint or Chip Baskets—With handle, ¼ bu. size, 15c; ½ bu. size, 20c.

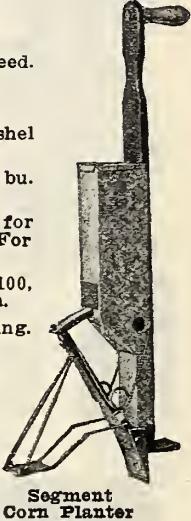
Pea Bags—Used by Anne Arundel farmers for bringing peas and beans to market. 20 each. For quantities write for price.

Strawberry Boxes—1 qt. size, 10c doz.; per 100, 75c. Per 1,000, prices furnished on application.

Trace Chains—7 ft., straight link, hook or ring. Price \$1.75 pair. No. 2 cheaper grade \$1.50.

Cow Chains—Tieing out, No. 1 20 ft. 60c; No. 00 heavier grade 20 ft. 75c; No. 00 30 ft. \$1.00; Stable ties, 4½ ft., price 50c.

Back Bands—Cotton duck with snaps 42 in. 75c each.



#### Little Giant Mole Trap

Fig. 21

The simplest, safest and surest mole trap ever invented. Self-setting. Price, \$1.00, postpaid.

#### Out-o'-Sight Mole Traps

The most complete in existence. \$1.25 each; doz. \$13.50. Parcel Post weight, 3 pounds.

**M O L O**—A preparation that will clear your lawn of moles and field mice in a few nights. Pkt. 25c, postpaid.

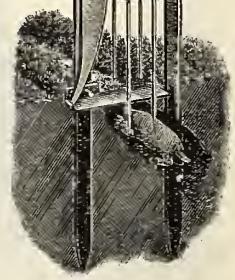
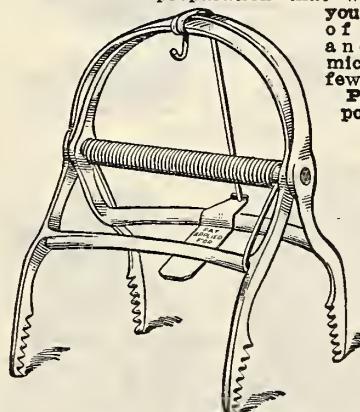




Fig. 6

**GERMO FLY SHOO**—Make your cows and horses comfortable by using it regularly. Won't blister or injure hair. 1 qt. 50c; 2 qts. 75c; 1 gal. \$1.75.

**RICE'S CALF WEANER**—Fig. 6. Very effective for weaning calves and preventing cows sucking themselves. No. 1, for calves, 40c; No. 2, for heifers, 65c; No. 3, for cows, \$1.00; postpaid.

**BULL RINGS**—Copper, 40c apiece. 3 inch. Postpaid.

**BAG BALM**—For all diseases of the cow's udder and teats there is no remedy so quick and certain in its curative powers as Bag Balm. 60c, postpaid.

**KOW-KARE**—Valuable for run-down cows. 65c, \$1.25, postpaid.

**CALF MEAL**—The best milk substitute. 1 lb. 8c; 25 lbs. 75c; 50 lbs. \$3.25; 100 lbs. \$6.50.

**PRATT'S ANIMAL REGULATOR** is a regulator, digestive and mild tonic. The ingredients consist of pure medical roots herbs and barks, carefully blended in the exact proportions necessary to gently but surely act on the blood, bowels, liver and digestive organs of horses, cows, sheep and hogs. It causes perfect digestion. Pkg. 25c, 50c and \$1.00; 12-lb. pail, \$2.15; 25-lb. pail, \$3.40; 50-lb. drum, \$5.85; 100-lb. drum, \$11.40.

\***PRATT'S WORM POWDER**—For destroying worms in horses, cows, hogs and sheep. Box 50c. Weight, 1 lb.

**BITTER LICK**—For horses and cattle of all kinds. Price of brick, 35c.

**HOLDERS FOR BITTER LICK BRICK**—Made of iron and japanned black. 30c each.

### Rural Mail Boxes

22. Gauge Galvanized Steel, without Inner Galvanized Box. Box has a Letter and Coin Holder for mailing Letters when not supplied with stamps; Reinforced Roller Ends; Drop in End of Box for Depositing Mail without Unlocking; Red Signal raised by Mail Carrier to show that he has deposited mail in the box. Price, \$1.75. Parcel post weight, 8 lbs.



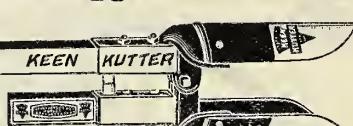
### Brooms and Brushes

Plain Corn Brooms, extra quality... .75  
Bass Push Broom, 14 inches. (See cut) ..... 1.00

Handles for Push Brooms,  
25c each.

### Posthole Digger

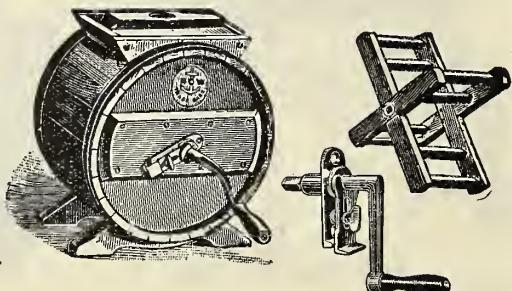
Highest Grade Crucible Steel Blades, 12 Gauge, 9 in. deep, 5 in. wide, riveted to heavy shouldered Malleable Iron Frame, with closed handle sockets, 4 in. deep; select ash handles with graduation marks in ft. burned on, from 2 to 4 ft.; will dig hole 6 in. in diameter. Price, \$2.25.



"Keen Kutter" Posthole Digger

### IMPROVED CEDAR WOOD CYLINDER CHURN

No. 1-3 gal. \$3.75.  
No. 2-4 gal. \$4.50.  
No. 3-7 gal. \$5.25.  
No. 4-10½ gal. \$6.00.



### Baltimore Pattern Hand-Made Butter Print

This Butter Print is hand-made out of solid hardwood, and is put together with brass screws, making it indestructible. Being a two-piece print makes it very handy to use. ½-lb. Sheaf of Wheat Print, \$1.25; weight, 1 lb. 1-lb. Sheaf of Wheat Print, \$1.50; weight, 2 lbs. ½ lb. Special Prints, carved with initials, on application.

### SEELEY PATTERN BUTTER PRINTER

Furnished with sheaf of wheat. Movable block. ½ lb. 75c. Weight, 1 lb. 1 lb. 90c. Weight, 2 lbs.

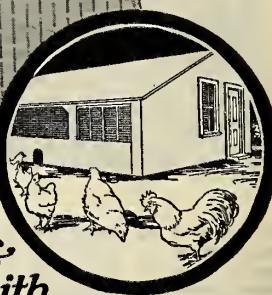
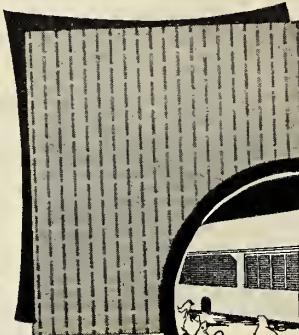
**PARCHMENT BUTTER PAPER**—Cut for pound and half-pound prints. Price, 35c lb. Special price on quantities.

**WELLS, RICHARDSON & CO.'S BUTTER COLOR**—The best butter color on the market. Small bottles, colors 500 lbs. 35c; large bottles, 75c and \$1.40.

**FLOATING DAIRY THERMOMETER**—30c; postpaid, 35c. Prices Subject to Change Without Notice.

**Cello Glass**—The great substitute for glass, much stronger and lighter than glass. Can be used wherever glass is used. 300 square feet to the roll. 3 feet wide, cut any size from 1 running foot up. Price, 45c a running foot; for postage, 10c per foot, 1c for each additional foot.

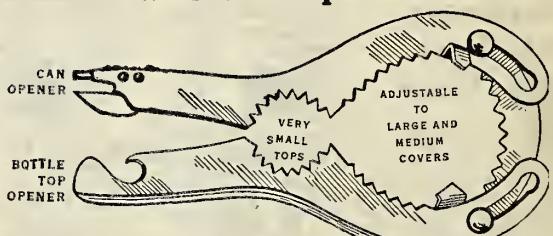
Full roll, 100 running feet, \$43.25; parcel post weight, 33 lbs.



Protect  
Chicks &  
Plants with

### CEL-O-GLASS

"Sure Grip" Adjustable Jar, Bottle and Can Opener



### OPENS EVERYTHING IN JARS, BOTTLES AND CANS

Needed in every home. In use the year round. Adjustable to all sizes of jars bottles and cans. Price, 25c, postpaid.

### Grape Protecting Bags

If put on during the period when grapes are forming they will save many times their cost in the amount of fruit they will save from insects, rot, birds, etc. All ready to fasten. No. 2 the right size for our domestic grapes. Price, 10c doz.; 50c 100; \$4.25 1,000. Prices on larger bags on application.

Parcel Post weight, 2 lbs. per 100; 15 lbs. per 1,000.

Bag all grapes to keep them from insect stings.

Gentlemen:

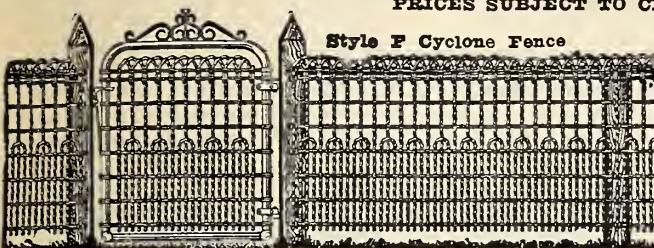
It is with great pleasure that I inform you that all of the vegetable seeds and flower seeds which I purchased from you last year turned out wonderfully well. The results were exceptional.

Again I thank you for the valuable advice which you so freely gave.

Very truly yours, FRED. H. JACKSON.

## NORWOOD AND AMERICAN SANITARY WIRE FENCING

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



Style F Cyclone Fence

No. 600 is the most popular sanitary wire fence. Pickets are all Nos. 9 and 12 heavily galvanized wire. The line wires are spaced  $1\frac{1}{2}$  inches apart at bottom, 3 inches at top, making fence absolutely chicken tight. Regular heights are 36 inches, 42 inches and 48 inches.

Price per lineal foot, No. 600, 36 in., 16c; 42 in., 18c; 48 in., 22c. Full 10 or 20 Rod Rolls less 10 per cent.

Three-foot Ornamental Walk Gates to match, \$4.25 each. 3 $\frac{1}{2}$  ft. 5 per cent and 4 ft. opening 10 per cent higher.



No. 2 Tree Guard—Made of No. 7 heavily galvanized wire woven together with No. 12 galvanized cable wire, 12 inches diameter 72 inches high. Price, \$1.50.

### Drive Gates

Single Ornamental Drive Gates 8, 10 and 12 ft., height 36, 42 or 48 in. Prices, \$8.50, \$9.50 and \$11.50.

Double Ornamental Drive Gates, 8, 10 and 12 ft., height 36, 42 or 48 in. Prices, \$9.50, \$11.50 and \$12.50.



### Storage or Ash Can

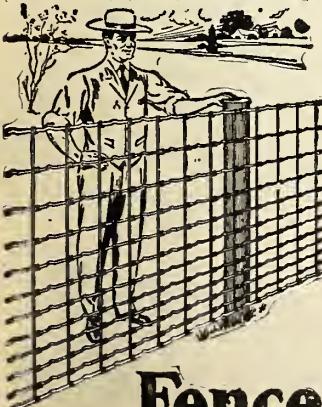
Galvanized, deep cover, rat and damp roof. Excellent for storing grain or dry mash. No. 67, capacity, 2 $\frac{1}{2}$  bu. Price, \$2.50.

### Wire Hanging Baskets

Help make the city beautiful by installing wire hanging baskets and window shelves filled with beautiful flowers. Made of good heavy wire. Painted green. See illustration.

Baskets, 8-in., 25c; 10-in., 35c; 12-in., 45c. Parcel Post weight, 2 lbs. each.

## American



### Fence

Keen Kutter Post Hole Digger—See page 64.



Wire Hanging Basket

#### "AMERICAN" POULTRY AND STOCK FENCE

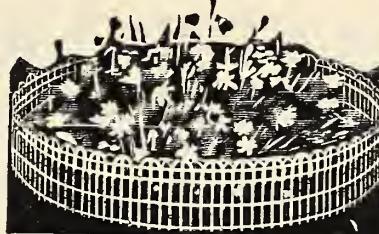
"American" Poultry and Rabbit Fence — For poultry yards, gardens, orchards and yards; it is a great favorite. 165 running feet, 48-in., \$7.25; 58-in., \$8.00.

##### Banner Poultry Fence:

36-in. 165 ft.	.....	\$5.25
48-in. 165 ft.	.....	6.25
60-in. 165 ft.	.....	7.25
72-in. 165 ft.	.....	8.25

##### Field Fence:

72x6. 165 ft.	.....	\$6.25
72x12. 165 ft.	.....	4.75
1047x6. 165 ft.	.....	9.50
1047x12. 165 ft.	.....	6.75



### Perfection Flower-Bed Guard

Fits any shape or size of flower-bed. No posts required. Cut to any length. Bottom of pickets left straight to be inserted in the ground. Made in three heights. Price per lineal foot: 16-in., 9c; 22 in., 11c; 28 in., 12c.

### Wire Trellis Fig. 2

Just the thing for climbing plants and flowers. Cut to any length; fits any porch. The most inexpensive practical trellis made. Furnished in three widths. Price per lineal foot: 18 in., 7c; 24 in., 9c; 30 in., 11c.

### Norwood Rubbish Consumers

Burns waste paper, rubbish and all combustible materials without scattering and without danger from fire.

No. 2—Height 22 in.; diameter 15 in.; weight 7 lbs. Price, \$1.75.

No. 3—Height 20 in.; diameter 18 in.; weight 9 lbs. Price, \$2.25.

No. 4—Height 31 in.; diameter 21 in.; weight 12 lbs. Price, \$3.50.



Illustration of 2-inch Diamond Mesh Poultry Wire

### Diamond Mesh Poultry Netting

Put up in rolls of 150 running feet. Galvanized after weaving.

2 in. No. 20. 1 in. No. 20. Wire.

1 foot .....	\$1.25	\$2.75
18 inch .....	1.75	4.00
24 inch .....	2.25	5.00
36 inch .....	3.00	7.00
48 inch .....	4.00	9.25
60 inch .....	5.00	11.50
72 inch .....	6.00	13.75

2 inch less than roll lots 1 $\frac{1}{4}$  square ft.; 1 in., 3 $\frac{1}{2}$ c. Price subject to change without notice.

#### Poultry Wire Staples, 10c per lb.

Prices on all kinds of wire and steel goods subject to change without notice.

### Galvanized Steel Fence Posts

CHEAPER THAN WOOD AND MORE DURABLE—Galvanized Inside and Out

	Length —Feet.	Approx. Wgt.—Lbs.	Price.
Line Post .....	5	7.4	.67
Line Post .....	6	8.4	\$.70
Line Post .....	7	10.	.80
Line Post .....	8	11.4	.95
10 End Post .....	7	51.	4.00
10 End Post .....	8	59.	5.00
10 Corner Post .....	7	75.	6.50
10 Corner Post .....	8	86.	7.00
Ball Tops for Line Posts .....			.30
Ball Tops for End and Corner Posts .....			.50
Driving Caps for Line Posts .....			.55



American Galvanized Steel Fence Post.

# BUCKEYE Incubators--

## HATCH MORE CHICKS

Buckeye Incubators give results that cannot be secured with any other incubator. They hatch more chicks. They hatch bigger, stronger, better chicks.

The Buckeye Hot Water Heating System is the system that insures absolutely correct temperature being maintained every minute of the incubation period. It insures the heat being uniform over the entire egg tray. There are no underheated eggs—no overheated eggs. The air in the Buckeye egg chamber is always fresh and pure. It is always moist. It isn't dried out. The Buckeye system retains all the natural moisture in the air.

### Patented All-Metal Thermostat

The greatest contribution to artificial incubation is the patented Buckeye All-Metal Thermostat. It prevents that harmful fluctuation in temperature that kills the chicks in the shell. It gives absolute control of the temperature in the egg chamber regardless of changes in outside temperature. It insures the maintaining of the necessary temperature in the egg chamber at all times. This wonderful Thermostat is all-metal. It doesn't go wrong; it doesn't wear out; it is always sure and reliable.

### Guaranteed

Buckeye Incubators are guaranteed. Any incubator or part thereof that does not fulfill our guarantee will be replaced any time within forty days.

**MORE THAN 700,000 SATISFIED USERS PROVE BUCKEYE'S HATCHING ABILITY**

Gentlemen:

The White Leghorn and Barred Rock chicks which I purchased from you last Spring have turned out to be very fine birds.

MR. D. F. MARTIN,  
Walkers, Md.

Gentlemen:

Just to let you know that the M. & S. Rhode Island Red Chix have turned out to be beautiful chickens.

MR. GUS WIRSING,  
Spottswood, N. J.

**USED BY AGRICULTURAL COLLEGES AND GOVERNMENT EXPERIMENTAL STATIONS**

### Six "Standard" Models



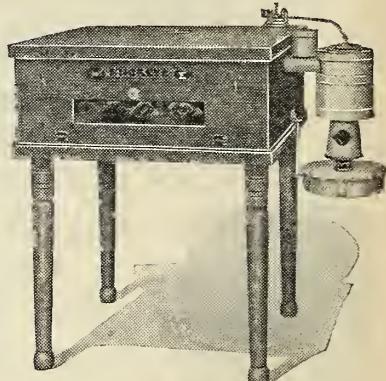
California Redwood is used exclusively in the outside walls. The top and sides are two pieces of seasoned lumber with corrugated insulation between. The patented lamp and lamp support meet the requirements of the Insurance Underwriters' Laboratories. This insures an incubator that is absolutely fireproof.

Model.	Capacity.	Price.
No. 1	110 egg	\$37.50
No. 2	175 egg	44.50
No. 3	250 egg	57.75
No. 4	350 egg	68.00
No. 5	600 egg	107.00
No. 40	1,144 egg	250.00

### Three Style "E" Models

A quality incubator at exceptionally low prices. The walls are made of California Redwood. The top is two pieces of seasoned lumber with corrugated insulation between.

Model.	Capacity.	Price.
No. 14	65 egg	\$16.50
No. 16	110 egg	27.50
No. 17	210 egg	36.75



## Buckeye Brooders Raise More Chicks

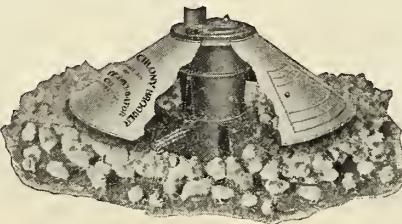
### Improved Coal-Burning Brooder

The Improved Coal-Burning Brooders give the greatest values ever offered. The prices are drastically reduced. The brooders are improved. The stoves are larger. They hold more coal. They give more heat. They burn soft coal or hard coal longer with one fueling. The Double Check Draft—thermostatically controlled—insures the holding of a continuous fire. The Revolving Hover saves time and work. Every attention can be given the brooder without raising the hover or disturbing the chicks.

#### Three Models

Model.	Actual Chick Capacity.	Diameter of Hover.	Price.
No. 117	Up to 350	42 inches	\$16.50
No. 118	Up to 500	52 inches	21.50
No. 119	Up to 1,000	56 inches	26.50

(Prices slightly higher in Western Canada)



Reduced Prices  
As Low As  
\$16.50  
Slightly Higher in  
Western Canada.

### Most Efficient Oil-Burning Brooder

Buckeye is the most efficient Oil-Burning Brooder ever devised. It has a wick burner. There is no "oil-leveling" mechanism to go wrong. There are no valves or levers to fuss with and adjust. There's no priming necessary. It is as safe, reliable and simple to operate as a high grade kitchen oil stove. Simply light the burner and the job is done. It stays lighted. It stays regulated.

Buckeye has the patented "Diafram" Heat Conveyor—a device attached to the hover that insures radiation of the heat to all the chicks. It means all the heat is used and all the chicks are cared for better.

#### Three Models

Model.	Actual Chick Capacity.	Diameter of Hover.	Price.
No. 27A	Up to 200	34 inches	\$17.50
No. 80	Up to 350	42 inches	19.00
No. 81	Up to 500	52 inches	21.50

(Prices slightly higher in Western Canada)

### Guarantee

Buckeye Brooders are guaranteed to do all we claim. Try any size for 30 days and if not satisfactory your money will be refunded.



## M. & S. POULTRY SUPPLY DEPARTMENT

We carry everything in the line of Poultry Accessories and we cheerfully give free advice how to raise Poultry profitably. M. & S. Wonder Bred Chicks during February, March, April, May, and June (see page 77).

# Lectro-hatch

### ELECTRIC INCUBATORS



Lectro-Hatch Price List  
65-egg capacity, \$23.50;  
150-egg, \$38.00; 300-  
egg, \$67.00; 600-egg.  
\$118.00. When ordering  
indicate state voltage.

Use a Lectro-Hatch Electric Incubator and say good-bye to work and worry in hatching. Chicks are as strong and sturdy on the first day as ordinary chicks from four days to a week old. You attach the incubator cord to an electric light socket. Then you adjust the machine to hold hatching temperature by giving one or two turns to a small thumb nut. After that the Regulator, which is an exclusive feature, watches the temperature for you.

#### Lectro-Hatch Electric Incubator Elements

Lectro-Hatch Elements are specially made by electrical experts to exactly fit your

Incubator according to specification. When ordering give us the following information: Make of Incubator, Egg Capacity, Shape of Incubator (Round, Square or Oblong), Length of Top Wall or Lid (Inside), Width of Top Wall or Lid (Inside), Thickness of the Top Wall or Lid, Depth of Egg Chamber (Distance inside from Lid to Egg-Tray), Voltage Electric Power to be used. Prices: Any size Incubator up to 150-egg Capacity, \$12.50; Over 150 and less than 400-egg Capacity, \$15.00, postpaid.

## Lectro-hatch Electric Brooder

Just turn an electric socket button and the Lectro-Hatch Brooder begins to warm up. Same device to maintain constant, even heat as in Lectro-Hatch Electric Incubators. No danger of overheating or fire. No lamps to fill, no stoves to tend, no ashes to carry out. No muss or dirt. Lectro-Hatch Brooders really cost less to operate than other style brooders.

Price: 28 inch diameter, 150 chick capacity, \$18.00; 40 inch diameter, 500-chick, \$23.50. When ordering, state voltage.



## Buckeye Electric Brooders



The Buckeye Electric Brooder is the most advanced brooder of this type. It is simple, dependable, economical and practical. It provides an abundance of heat with a surprisingly small amount of current. It assures correct temperature for the chicks—temperature

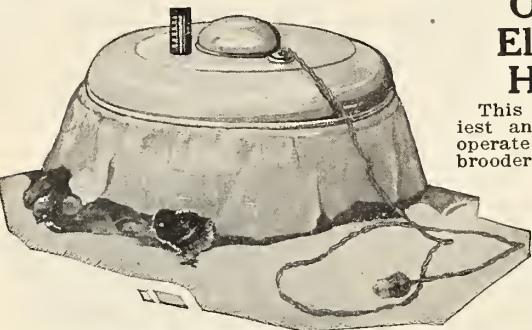
that is automatically regulated. It won't overheat or underheat. It stops crowding, smothering, and chilling. It stops baby chick losses and increases profits.

#### Amazing Automatic Current Control.

Made in Four Sizes.

No. 90—Chick Capacity 50; diam. of canopy 26 in.....	\$14.50
No. 91—Chick Capacity 100; diam. of canopy 36 in.....	19.25
No. 92—Chick Capacity 200; diam. of canopy 46 in.....	24.75
No. 93—Chick Capacity 300; diam. of canopy 56 in.....	29.50

Don't be misled by ratings of other brooders. No brooders of same size hovers will successfully brood more chicks than the Buckeye ratings.



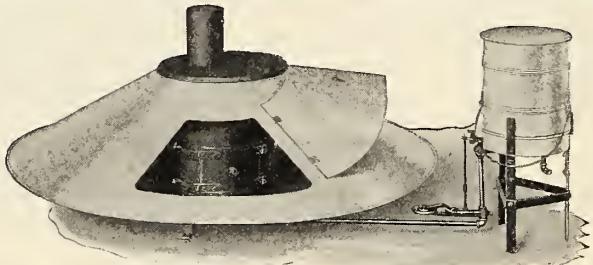
## Oakes Electric Hover

This is the handiest and easiest to operate of any brooder you ever saw. Its operation is as near automatic in every way as possible. No lamp to bother with, no fumes or smoke to

stunt the chicks, no extreme fluctuations in temperature. Furnished complete with automatic regulating attachments, brooder thermometer and curtain.

Capacity, 50-75 chicks. Price, each, \$12.00. Shipping wt. 13 lbs.

## Buckeye "Rite-Heat" Colony Brooders



#### Amazing New Brooders for Large Flocks

Here's an oil burning brooder, with large chick capacity, that does everything a coal burning brooder will do. It provides an unlimited amount of heat. It cares for large broods of chicks. It is absolutely dependable even in extreme weather conditions. It uses a surprisingly small amount of oil. It is automatic in its operation.

#### Two Models

No. 101—Capacity up to 500 chicks—48 inch hover..... \$26.50

No. 102—Capacity up to 1000 chicks—62 inch hover..... 31.50

Don't be misled by ratings of other brooders. No brooders of same size hovers will successfully brood more chicks than the Buckeye ratings.

This is used to heat a home-made brooder, which will take the best of care of from 30 to 60 chicks. Instructions for making brooder packed with every heater.

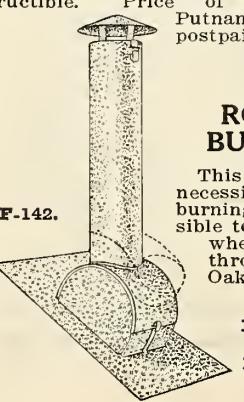
The Putnam Brooder Heater is made of brass and galvanized iron. It is practically indestructible. Price of



**\$4 75 Post Paid**

Burns 10 days without attention

Putnam Brooder Heater Galvanized. \$4.75 postpaid. Illustrated circular on request.



## OAKES ADJUSTABLE ROOF SADDLE FOR COAL-BURNING BROODER STOVES

This new roof saddle does away with the necessity of having a chimney for a coal-burning brooder stove. This makes it possible to use your brooder in any suitable room where you can run the stovepipe up through the roof and connect it with the Oakes Adjustable Roof Saddle.

No. F-142 (for 4-in. pipe). Wt. 7 lbs. \$1.95

No. F-143 (for 5-in. pipe). Wt. 7 lbs. 1.95

# NEWTOWN Colony Brooders

## will Increase Your Poultry Profits

### Coal-Burning Brooders Give Wonderful Results

The Newtown Coal-Burning Brooder is a sensation. It has given poultry-raisers a new idea of chick-raising efficiency. It has produced results that are almost unbelievable. This is because of Newtown's advanced design. It is the result of 25 years of brooder building. In all parts of the country it is producing phenomenal results.

#### BIG EXCLUSIVE FEATURES

Newtown is noted for its wonderful exclusive features. It has an extra big, self-feeding coal magazine, an extra big fire bowl, a large combustion chamber and Double Check Draft—thermostatically controlled.

When you think of these features you can see how Newtown is built to brood chicks under every emergency. It gives a marvelous amount of heat. It cares for all your chicks regardless of weather conditions. It burns soft coal satisfactorily as well as hard coal. And Newtown holds the fire. It doesn't require constant attention. You don't have to get up at night to see if your chicks have enough heat. They're always safe and warm with Newtown.

#### LESS WORK AND ATTENTION

Newtown is economically to operate. It saves time and work. It's easy to coal. The heat regulator is self-regulating. The Deflector is conveniently hinged to permit easy access to the stove.

#### Three Sizes

Model.	Chick Capacity.	Diameter of Hover.	Price.
No. 7	Up to 300	48 inches	\$25.00
No. 11	Up to 500	50 inches	32.50
No. 12	Up to 1,000	56 inches	40.00

The No. 7 was designed especially for single room brooder houses approximately 6x8 to 10x12; the No. 11 for approximately 240 square feet and the No. 12 for approximately 400 square feet of space. The No. 11 is considered the ideal size.

Ask for Descriptive Bulletin.

- A—Grate (Ring Grate and Slide Center).
- B—Grate Rest.
- C—Air Space Between Double Bottoms.
- D—Sloping Surface to Ash Pit Door.
- E—Ash Pit Door.

- F—Air Space Between Fire Bowl and Metal Jacket.
- G—Opening Between Combustion Chamber and Radiator.
- H—Radiator.
- I—Observation Door.
- J—Coal Magazine.
- K—Magazine Cap.

- L—Smoke Box Ell.
- M—Check-Draft Opening.
- N—Main Draft Opening.
- O—Lower Draft Elbow.
- P—Damper Discs.
- Q—Regulator Support.
- R—Adjusting Nut.
- S—Counter-Balance Weight.
- T—Thermostat.
- U—Thermometer.
- V—Sand Ring.
- W—Deflector Lid.
- X—Small Door in Canopy.
- Y—Canopy.
- Z—Smoke Box Clean-out.

Cross Section View of No. 12.

\*NOTE—The No. 7 Smoke Box Ell is slightly different than on the Nos. 11 and 12. Instead of having a clean-out, the soot, etc., is turned into the fire.

In ordering Repair Parts always give Number of Brooder Stove and Name of Part Wanted.



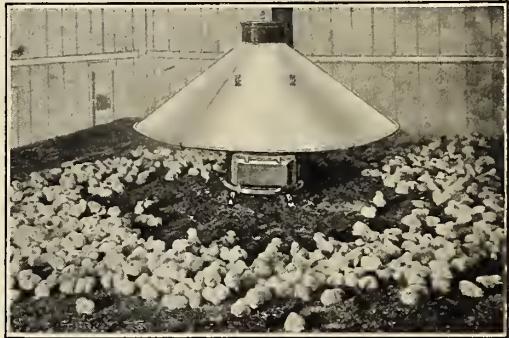
"A NEWTOWN MOTHER"  
Showing Easy Access to Ash Pit,  
for Cleaning Purpose.

### Newtown Coal Burning Colony Brooders

The Newtown Coal Burning Colony Brooder needs no introduction to poultrymen. It was the first coal burning, self feeding, self regulating colony brooder put on the market, having been longer in use than any other of its type. It is giving efficient service in every State in the Union and eleven foreign countries, and represents the modern up-to-date brooder in the highest form of development. It is durable, easy to operate, safe, economical and labor saving.

**CONSTRUCTION**—Made of best grade heavy heat retaining castings.

**EASY TO OPERATE**—Nothing complicated—full instructions furnished with each brooder. Automatic Regulator controls the drafts and no change in weather is too sudden for its adjustment.



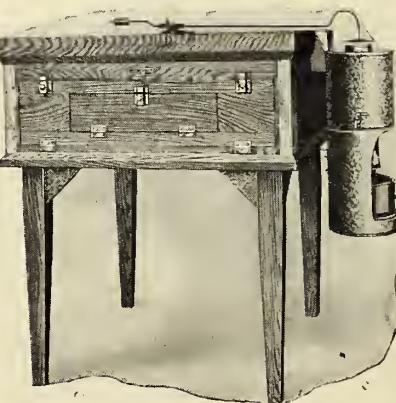
Happy and Contented Under a Newtown Mother.

**SAFE**—Hot coals cannot roll out of the ash pit door into litter. Has a double bottom, with dead air space, and a heavy metal casing which prevents chicks from scratching litter against the hot firebowl.

**ECONOMICAL**—Built to last a lifetime. Firepot and combustion chamber designed to burn all gases, greatly reducing fuel cost.

**LABOR SAVING**—Requires little attention. Magazine holds sufficient fuel to last 24 to 6 hours. Turning one small adjusting nut enables one to secure any desired temperature. Deflector is not disturbed in coaling. Hinged deflector lid gives easy access to ash pit door. Smoke box ell prevents soot or other foreign matter falling down smoke pipe and interfering with draft regulation.

### Newtown 65-Egg Incubator \$17.50 While They Last



They are well constructed of high-grade material, well insulated and perfectly ventilated. These machines are of beautiful chestnut and with ordinary care will last indefinitely. The heating system is of copper.

We also have a few other makes of Incubators and Brooders which we are anxious to dispose of, on account of our Buckeye agency.

#### BUCKEYE INDOOR PORTABLE BROODERS.

No. 20—Up to 60 chick capacity.....	\$11.75 Del.
No. 21—Up to 100 chick capacity.....	15.50 Del.
No. 22—Up to 150 chick capacity.....	19.00 Del.

## Everlastic Rubber Roofing

Look at the label before you buy! If the label reads "Barrett Everlastic Roofing" you are perfectly safe. You are sure of a moderate-priced roof that will give many years of satisfactory service.

Medium—108 sq. ft., width 3 ft., guar. 10 yr. \$2.50  
Heavy—108 sq. ft., width 3 ft., guar. 15 yr. \$3.00

## Mineral Surfaced Roll Roofing

Everlastic—Red, Green or Blueblack. Weight 90 lbs. \$2.50.

Vitex—Red or Green. Weight 75 lbs. \$2.25.

Both 108 sq. ft. 3 ft. wide.

Prices on Roofing Subject to Change Without Notice.



## Barrett Liquid Elastigum

Barrett Liquid Elastigum is a cement in liquid form that gives new life to old roofs. It forms a tough, impervious coating over the entire roof, closing cracks and small holes that would otherwise admit moisture, thus making the roof practically one solid piece and, as far as utility goes, almost as good as new. It spreads readily and any one can apply it. Price, \$1.25 per gal.; 5 gal. \$4.00.

## Moe's Oat Sprouter

Steel frame, well braced and painted. With six heavy galvanized iron pans which are interchangeable. Provides the very necessary green feed at all seasons.

Total height, 3 ft. Size of pans, 16x18 inches.

No. 110—Oat Sprouter. Ea. \$6.00

## "Sun-Lite" Oats Sprouter

Made of galvanized iron, each 18-inch perforated pan or tray can be removed separately. No lamp or fuel required.

No. 110

Put in the oats, moisten a little daily and in three or four days you can feed sprouts. Sections and trays can be purchased to increase capacity as desired.

No. E-62—3-tray, each ..... \$5.25

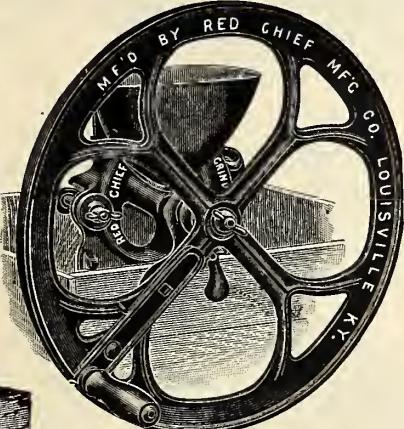
No. E-63—6-tray, each ..... 6.50

## "Red Chief" Grinding Mills

No. 1—For Small Poultry Raisers. Price, \$4.00.

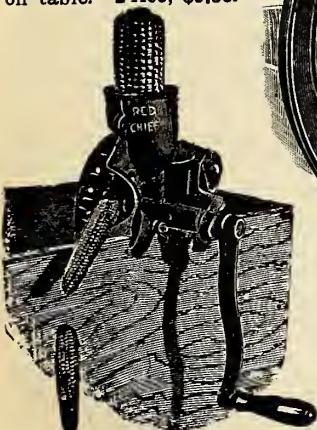
No. 8—with large capacity, feed gauge and fly wheel. Clamps to box. Price, \$7.75.

No. 10—with feed gauge, fly wheel and handsome stand to screw on table. Price, \$9.50.



## "Red Chief" Corn Sheller

Heavy in construction, with patent oval-shaped teeth which are arranged to shell rapidly and avoid injuring the grain. Price, each \$2.50; weight 12 pounds.



## Oakes Electric Fountain Heater

Keeps drinking water from freezing even in zero weather. Safe and easy to use. No danger of fire or explosion. Cost averages about a cent a day. Used with any type fountain, pan, crock or bucket. Set water vessel on heater and turn on current. That's all there is to it! No adjusting! No regulating! No watching! Pays for itself in winter eggs. Heater is 8 inches in diameter, 1½ inches high and made of heavy galvanized metal. Built for service. Money promptly refunded if unsatisfactory after ten days' trial. Price, \$1.75; postpaid, \$1.85.



## Collins' Oat Sprouters

### FRESH GREEN FOOD KEEPS THE CHICKENS LAYING

Every chicken raiser knows that sprouted oats can be grown without lamp—use the natural heat of the house.

8 Pans 11x15 the Popular Size. Weight 14 lbs. .... \$4.00

6 Pans 11x15 Small Back Yard Flock.

Weight 9 lbs. \$3.00

8 Pans 11x32 for Big Business.

Weight 28 lbs. \$8.00.

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8 Pans 11x32 for Big Business.

Weight 28 lbs. \$8.00.

## Little Putnam Stove for Poultry Fountains and Oat Sprouters

This little device will keep water from freezing in zero weather. It holds 6c worth of oil and burns a month without filling or trimming. Fool proof and fire safe. Used under any can, crock or fountain.

Over 80% of an egg is water. To get lots of eggs in winter, you should keep unfrozen water constantly before fowls. One cold day with water frozen, may stop egg production for a month.

A Little Putnam Stove is also used to heat a home-made oat sprouter. Plans for making sprouter packed with every stove. A 14-year-old boy can build the sprouter in two or three hours with no tools but saw and hammer. The materials required need not cost more than 50c. Price of Little Putnam Stove, Galvanized, \$1.95, postpaid. Illustrated circular on request.



**Postpaid**  
**\$1.95**

**Burns a Month Without Attention**

## Leg Bands for Poultry, Pigeons, Etc.

**ALL POSTPAID**

Tell the age and different strains of your poultry.

Table of sizes of bands for different breeds. Order by number.  
**No. 1**—Bantams and small Mediterranean females, etc.

**No. 2**—Ordinary Mediterraneans and pit game females, etc.

**No. 3**—Mediterranean males, American females,

pit game males.

**No. 4**—American males, medium Asiatic females, turkey hens, etc.

**No. 5**—Ordinary large Asiatics and tom turkeys, etc.

**No. 6**—Tom turkeys and geese.

**BANDETTES**—The large numbered colored celluloid flat poultry band, easy to put on, won't come off. Same colors as Spiralets. 250 doz.; \$2.00 100.



**Bandette.**

**SPIRALET LEG BANDS** are made of celluloid in different colors; black, white, light blue, dark blue, red, green, yellow, brown, etc. Prices: Three Poultry Sizes to correspond with Nos. 2, 3 and 4 in above list; 12, 15c; 50, 50c; 100, 90c; 500, \$4.00. Pigeon and Day Old Chick Size: 12, 15c; 25, 25c; 50, 40c; 100, 75c; 500, \$3.50.

**"SMITH SEALED" BANDS**—If you want the best be sure you get "Smith Sealed" stock numbered bands. Every band is numbered different. Prices, dozen, 35c; 25, 60c; 50, \$1.00; 100, \$1.75; 250, \$4.00; 500, \$7.75; 1,000, \$15.00.

**SEALERS FOR SEALING S. S. BANDS**—Plain, \$1.05; lettered jaw, \$1.15.

**"DOUBLE-CLINCH" LEG BANDS**—Made in Double Clinch sizes as table. A strictly reliable open or removable band. Fastens with two clinches, leaving absolutely no exposed corners, ends or loops to come loose. Prices, dozen, 20c; 25, 30c; 50, 50c; 100, 75c; 250, \$1.75; 1,000, \$6.50.

**DOUBLE-CLINCH FOR PIGEONS AND BABY CHICKS** can also be used as wing bands; in two sizes. Price, dozen, 15c; 25, 25c; 100, 70c; 1,000, \$6.00.

**CHAMPION LEG BAND** BANDS—Fig. 2. Adjustable in two sizes. Large for American, small for Mediterranean breed. Price, dozen, 15c; 25, 25c; 50, 40c; 100, 75c; 250, \$1.75; 1,000, \$6.50.

**"COLORED" ECLIPSE PIGEON BANDS**—Made in twelve colors. Black numbers on white ground on two sides of the band; can be read at several feet distance. Order as to numbers above No. 2 for Leghorns, etc. Prices, dozen, 40c; 25, 75c; 50, \$1.50; 100, \$3.00.

**SEAMLESS PIGEON BANDS**—Made in three sizes. Prices, dozen, 30c; 25, 60c; 100, \$1.50; 1,000, \$12.50.

**OPEN CHICK, OR PIGEON BANDS**—Prices, dozen, 15c; 25, 25c; 50, 40c; 100, 65c; 1,000, \$5.25. Fig. 6.

**ELITE DOUBLE NUMBER COLORED PIGEON** BANDS—This band is the most visible, most practical and effective numbered leg band made; in colors that can be seen at a distance—in 14 colors. black numbers of white. Prices, 6 pairs, 30c; 12 pairs, 60c; 25 pairs, \$1.15; 50 pairs, \$2.25. Fig. 7.

**IDEAL DE LUXE PIGEON BANDS**—Two colors on each band, all colors for marking mated pairs. Prices, 6 pairs, 25c; 12 pairs, 50c; 25 pairs, \$1.00; 50 pairs, \$2.00, postpaid.



Fig. 7

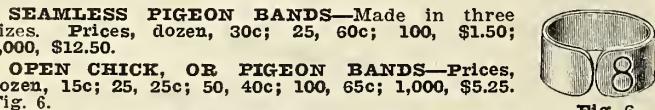


Fig. 6

**SCRAPERS**—This is the best and handiest tool which has ever been offered to Poultry Keepers. Works both ways coming and going. Made of the very best hard pressed steel. Price, \$1.00. 50c; postpaid, 60c.

## Thermometers, Instruments, Etc.

Cyphers Incubator Thermometer, postpaid, \$1.00. Cyphers Adaptable Hover Thermometer, \$1.00, postpaid.

**"Tycos" Incubator Thermometer**, No. 5770—Many poultry raisers prefer the standing type of Incubator Thermometer. No. 5770 is made with metal legs, which fold under and may be adjusted to almost any desired position. Sets in among the eggs on the floor of the incubator. Made in mercury tubes only. Price, 75c each; postpaid, 85c.

**"Tycos" Incubator Thermometer**, No. 5774—Most popular. Suitable for any incubator. Price, 75c; postpaid, 85c.

**M. & S. Incubator Thermometer**—Very handy, sets on bottom of tray; easy to read. Price, \$1.00, postpaid.

**Tycos Certified Thermometer**, No. 5782—Price, \$1.00. **"Tycos" Brooder Thermometer**, No. 5792—Mounted. Price, 60c; 70c Thermometer postpaid. No. 5776.

**"Tycos" Incubator Hygrometer**, No. 5796—Price, \$1.50. Extra wicks, 10c each, postpaid.

**Philadelphia Caponizing Set**—In plain box, \$2.50. In velvet lined box, price, \$2.75.

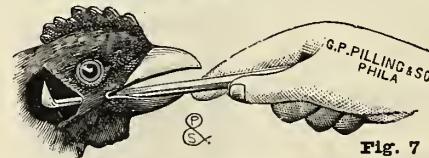


Fig. 7



Fig. 6

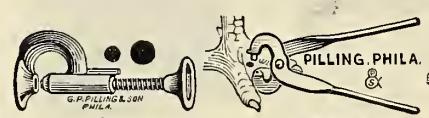


Fig. 5

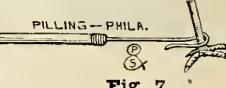


Fig. 7

**ANGULAR KILLING KNIVES**—Fig. 7. Price, 50c each.

**FRENCH SAFE EDGE KILLING KNIFE**—Fig. 6. Price, 50c.

**FRENCH POULTRY KILLING KNIFE**—Price, 50c.

**POULTRY ROUP SYRINGE**, 10c each. All the above postpaid.

**FOWL CATCHER** (Fig. 7)—20c, postpaid.

**GAPE WORM EXTRACTOR**—Price, 25c, postpaid.

**PHILADELPHIA PIGEON MARKER**—Large and small. Price, 25c, postpaid. Fig. 5

**POULTRY MARKER**—

In shape of pliers. 25c, postpaid. Fig. 6.

**MOE'S PIGEON PUNCH**—Fig. 8. The best punch made, easy to handle and will not bruise the web of the little chicks foot, 50c, postpaid.

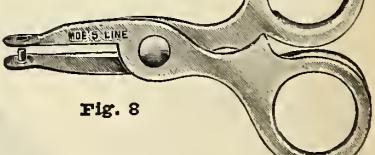


Fig. 8

## Anti-Setting Device STOPPS THE HEN SETTING

Breaks 'Em Up in 24 Hours (Patent Applied For)

Does not in any way injure the fowl. Requires five seconds to apply. Wrap around the leg joint blank sides front and back; allow the hen to feed and run with the flock 24 hours, then remove. Price, 15c each; \$1.50 dozen, postpaid.



**Mehler Scraper**—Positively the best and handiest tool which has ever been offered to Poultry Keepers. Works both ways coming and going. Made of the very best hard pressed steel. Price, \$1.00. 50c; postpaid, 60c.

## Pigeon Nests

**Clay Pigeon Nest**—Fills a long-felt want for all squab breeders. Price, 25c each, \$2.50 dozen. Express only.



# POULTRY AND PIGEON FEEDERS AND FOUNTAINS

## Royal Thermic Fountains

Keeps water warm in winter.  
Keeps water cool in summer.

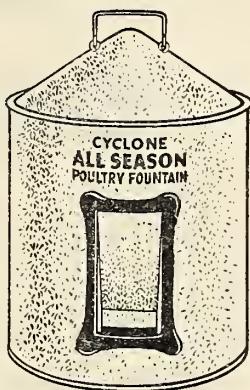
For cold weather fill with warm water in the morning.  
This fountain will keep the water in good drinkable condition through the day.

Made in three sizes.  
2 gal. size \$3.00 each, postpaid \$3.25.  
3 gal. size \$3.50 each, postpaid \$3.75.  
5 gal. size \$4.50 each, postpaid \$4.75.

## The "Cyclone"

## All-Season Poultry Fountain

The fountain that has won the highest favor among the leading poultry men everywhere. It is indispensable on the poultry farm. Constructed similar to a fireless cooker. Has double walls packed with insulating materials to keep the water warm in winter and cool in summer. Wide inserted drinking pocket makes this fountain absolutely sanitary. Made of the finest materials and best workmanship throughout.



## Cleanable Fountains

(Top Filled)

**No. 104**—Capacity 4 gal. Ship. wt. 25 lbs. Each.....\$4.50  
**No. 106**—Capacity 6 gal.  
Ship. wt. 30 lbs. Each...\$5.50

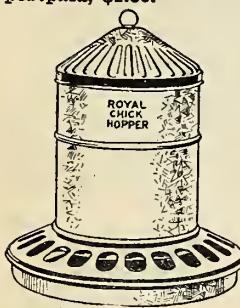
## Leader Fountain

A new Sanitary Fountain, practical to use, easy to keep clean. A saving of from 30 to 40 per cent over any fountain of its size.

Price, 1½ gal. size, 85c each; postpaid, 95c.

The 3 gal. size has two drinking spaces, making it very convenient for large pen fowl. These founts hang on the wall with two nails, one at each angle of the bail.

Price, 3 gal. size \$1.50 each; postpaid, \$1.60.



**No. 56**  
No. 56—ROUND DRY  
MASH FEEDER. Capacity  
1 peck. Ample feeding  
space. Price, \$1.25;  
postpaid, \$1.35.

## "Cymaco" Dry Mash Feeders

### Solve the Feeding Problem

The feeder that has won the highest favor among thousands of poultry man and farmers throughout the country. The CY-MACO feeder is made of the best galvanized steel with enameled steel legs to hold the feeder off the ground. The flow of the feed may be regulated by means of two thumb screws at either end of the feeder. Agitators are worked automatically by the fowls while feeding. The CYMACO accommodates twice as many hens as the ordinary hopper feeder. CYMACO is provided with a catch tray which prevents waste of feed and provides a means to close at night.

**No. 12**—Capacity ½ bu. Packed 1 to carton. Shipping weight, 11 lbs. Each.....\$2.50

**No. 24**—Capacity 1 bu. Packed 1 to carton. Shipping weight, 17 lbs. Each.....3.75



## Large Capacity Chick Dry Mash Hoppers

**No. 424**—24 inches long, 34 feeding holes; capacity 28 lbs. Price, \$2.00, postpaid \$2.25.

**No. 436**—36 inches long, 54 feeding holes; capacity 42 lbs. Price, \$2.60, postpaid \$2.85.

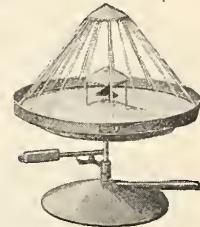
**No. 130**—Holds ¾ bus. \$2.70, postpaid  
**No. 131**—Holds 1 bu. \$3.25, postpaid \$3.50.

**No. 141**—Illustrated and priced on next page.

## Oakes Never-Dry Waterer

Automatically controlled flow of water. Easily attached to hose or water pipe. Will take care of large or small flock. Nothing to get out of order. Fowls cannot scratch dirt or litter into it, nor get into the water, or roost on this device.

**No. E-35**, each \$3.90, postpaid weight 12 lbs.



## Oakes Combination Fountain and Heater



The finest outfit made for year-round use. Exceptionally well made of best quality galvanized steel. Lamp burns ordinary kerosene. Operates thirty hours on one filling. Chickens can drink all around the fountain.

**No. F-38**—Cap. 3 gals. P. P. wt. 3 lbs. Each \$4.00

**No. F-39**—Cap. 5 gals. P. P. wt. 4 lbs. Each 4.75

**No. F-40**—Cap. 8 gals. P. P. wt. 5 lbs. Each 5.95

**No. F-42**—(Heater only, for F-38, F-39). P. P. wt. 2 lbs. Each.....1.75

**No. F-43**—(Heater only, for F-40). P. P. wt. 2 lbs. Each.....2.00

## FELKEE'S "1-2-3" GRIT AND SHELL FEEDER—Fig. 1

For dry mash, scraps, shells, grit, charcoal or any poultry feed. When used for one kind of feed only, take out separator in one end; three kinds, say scraps, shell and grit, put separator in middle, and you have three separate feeders. Price, \$1.35; small size, 75c. Weight, 5 lbs. each.

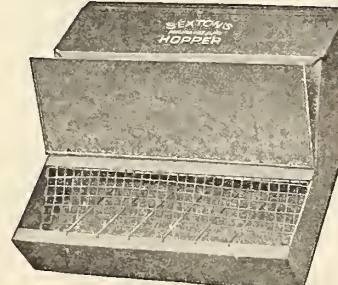


Fig. 3



Fig. 1

**Sexton's Dry Feed Hopper**—Easy to fill and no waste.

**No. 5**—Capacity, 24 qts. Fig. 3, wgt. 15 lbs. Each.....\$2.50

**No. 1**—Capacity, 12 qts. Fig. 4, wgt. 7 lbs. Each.....1.50

**No. 2**—Capacity, 3 qts. Parcel Post wgt. 4 lbs. Each.....1.00

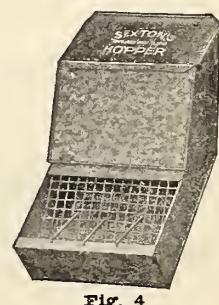
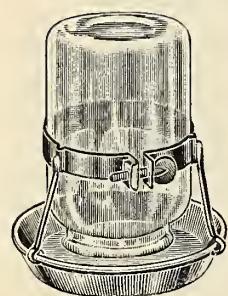


Fig. 4

# CHICK FEEDERS, POULTRY & PIGEON FOUNTAINS

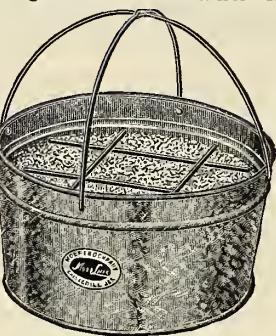


Pat. Applied For

To Be Used With Any Make of Fruit Jar.  
A perfect Feeder for sour milk, water, hard grain or grit. The container is made of aluminum, the only metal in which sour milk can be fed with safety. It is rust-proof and non-corroding. The Handy is adjustable, simple to operate and durable. Every one has some kind of a quart fruit jar—the Handy fits them all. 25c each, for postage add 5c.

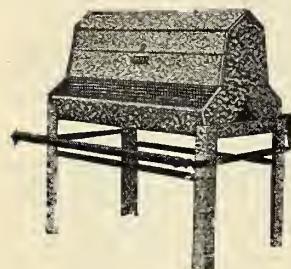
## Overall Mash Hopper

All steel, galvanized. Cap. 6 qts. Price, 75c, postpaid 85c.



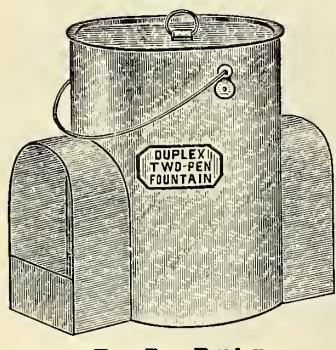
Overall Mash Hopper

## Oakes "Best Yet" Self Feeder



Saves poultryman's time, labor and feed. Strong and durable. Made of heavy galvanized steel. Fowls feed from either side, thus doubling feeding space. Length 36 inches, capacity 100 lbs. Stand elevates feeder 16 inches from floor. Has adjustable grate, which feeds any mash uniformly. Provided with hinged lid over both hopper and trough, making it rat, mouse and dirt proof. Great feed saver. No. E-55, with stand as shown ..... \$10.75

Top Section Slides Into Bottom Section.



Two-Pen Duplex

## Duplex Two-Pen Fountain

This fountain will serve two Pens at same time; gives good results and saves labor.

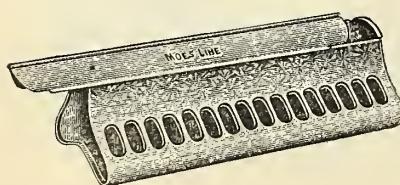
Made in two sizes, eight-quart and five-gallon.

Price: 8-qt. size (Parcel Post weight, 8 lbs.), each, \$1.65; 5-gallon size (Parcel Post weight, 4 lbs.), each \$3.00. See Twin Duplex on next page



## Royal Jar Fountains

This Fountain will fit any Mason Jar, and is intended for feed and water. 15c each; 2 for 25c; \$1.25 dozen, postpaid.

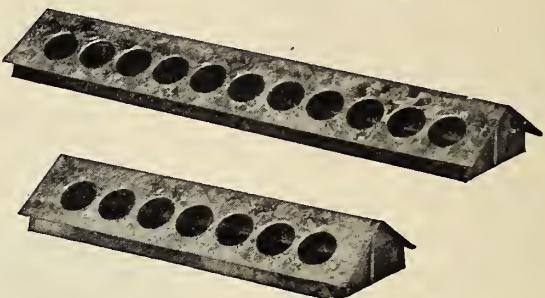


## MOE'S ONE FORTY ONE FEEDER

Made of heavy galvanized iron, with sliding top cover, easy to fill and clean.

No. 141—Feeder, capacity 17 quarts, length 35 in., width 8 1/2 in., height 7 in., 27 openings on each side, so that 54 chicks can feed at one time. Packed one in a carton. Price, \$3.00; postpaid, \$3.25.

## Royal Feed Troughs



Made of the best quality galvanized iron; well reinforced and very economical in price. Top lifts off and it is easily filled. Made in three sizes.

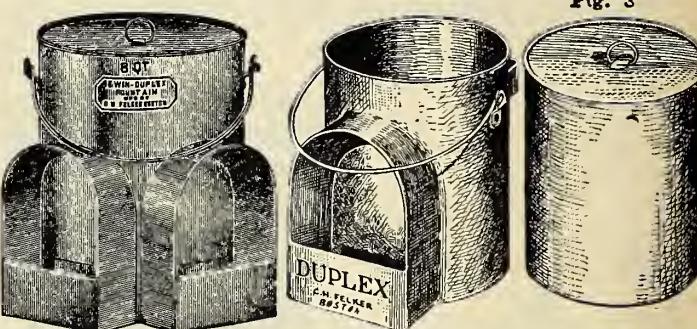
No. 12—Length, 12 in.; 14 feeding holes	25c	Postpaid 35c
No. 18—Length, 18 in.; 22 feeding holes	35c	Postpaid 45c
No. 24—Length, 24 in.; 30 feeding holes	45c	Postpaid 55c

## Felker's Sanitary Fountains For Poultry Fig. 3

"PEERLESS" DRINKING FOUNTAIN keeps the water clean and pure. 1 qt. brooder size, 35c; 5 qts. 90c; 10 qts. \$1.50. If to go by mail, add 10c to each size.



Fig. 3



FELKER'S DUPLEX WALL FOUNTAIN—A big improvement over the old style Wall Fountain. Made in two pieces, as per illustration, out of galvanized iron. Easy to clean, dead air space between cover and reservoir keeps water cool in summer and from freezing in moderate winter weather. Price, 4-qt. size, \$1.15; 8-qt. size, \$1.40. Parcel Post weight of either, 4 lbs.

TWIN DUPLEX FOUNTAIN—Like above, but constructed with two drinking spaces. Eight-quart size. Price, \$1.65. Parcel Post weight, 5 lbs.

Five-Gallon Twin Duplex—Price, \$3.00. 9 lbs.

Parcel post weight, No. 31 Royal Fountain

## BEST FOR BABY CHICKS



3 Pans 75c POST PAID 4 Pans \$1

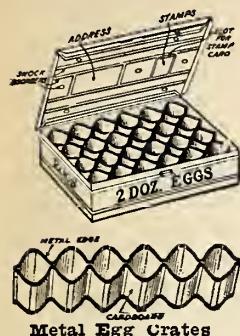
It fits any Mason jar. The top or the pan can be removed in a second clean or fill. 25c each; 30c postpaid.



This Fountain is made in two pieces of galvanized iron. Can be used for growing chicks and large fowls. Capacity, 4 qts. Price, 50c; 60c postpaid.

## FEED CUPS for Exhibition and Training Cages

Large size, No. 1, 20c each; \$1.75 dozen; small size, No. 0, 15c each; \$1.50 dozen. Parcel post weight, 1 lb.



## Metal Egg Crates

Sell Eggs by Mail to Your City Friends  
Shipped in Aluminized Metal Egg Crates

Indestructible; made for inter-changeable shipments; lasts for years; pays for itself in a few shipments. Buy yours now and realize more money for your eggs. Your friends want them. Thousands now in daily use.

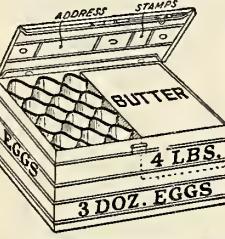
The Metal Edge Filler is a wonder. A new invention and cannot be beat for safely carrying eggs by mail. Light in weight and very strong.

Price of eggs in the city is about double the price obtained by the farmer at a local store for selected eggs. You might as well be receiving this added profit by shipping your eggs direct.

Butter and Eggs safely carried by mail in same crate. Can also be used in sending other products. See Combination Crate.

### Mailing Rates

Weights	Postage
Empty.	Empty.
1 1/2 doz. size.....	3 lbs. 7c 9c
2 doz. size.....	3 lbs. 7c 10c
3 doz. size.....	4 lbs. 8c 12c
4 doz. size.....	5 lbs. 9c 15c
6 doz. size.....	6 lbs. 10c 19c
9 doz. size.....	8 lbs. 12c 26c
12 doz. size.....	10 lbs. 14c 32c
Comb. No. 1.....	3 lbs. 7c 10c
Comb. No. 2.....	4 lbs. 8c 15c
Comb. No. 3.....	5 lbs. 9c 18c
Comb. No. 4.....	3 lbs. ....
Comb. No. 5.....	5 lbs. ....
Comb. No. 6.....	5 lbs. ....
Comb. No. 7.....	6 lbs. ....



Combination Crates

The above postage rates apply to the second zone or 150 miles. Add postage to your destination.

### Metal Egg Crates Prices

1 1/2 doz. size—all eggs.....	\$1.25
2 doz. size—all eggs.....	1.50
3 doz. size—all eggs.....	1.75
4 doz. size—all eggs.....	2.00
6 doz. size—all eggs.....	2.50
9 doz. size—all eggs.....	3.25
12 doz. size—all eggs.....	4.00

### Prices Combination Crates With Metal Containers

No. 1—2 lbs. and 1 doz. eggs.....	\$1.50
No. 2—4 lbs. and 2 doz. eggs.....	2.00
No. 3—4 lbs. and 3 doz. eggs.....	2.25
No. 4—6 lbs. (3 2-lb. Containers).....	2.25
No. 5—12 lbs. (3 4-lb. Containers).....	2.50
No. 6—16 lbs. (2 8-lb. Containers).....	2.50
No. 7—24 lbs. (2 12-lb. Containers).....	3.50

"HUMPTY DUMPTY" EGG CARRIER—Fig. 5. A very light, strong and convenient egg crate and carrier. Made of hard wood slats securely fastened. The lid with handle, springs into position when crate is filled. Collapsible. 12 dozen. 75c. Padcel Post weight, 5 lbs.	\$1.50
No. 2—4 lbs. and 2 doz. eggs.....	2.00
No. 3—4 lbs. and 3 doz. eggs.....	2.25
No. 4—6 lbs. (3 2-lb. Containers).....	2.25
No. 5—12 lbs. (3 4-lb. Containers).....	2.50
No. 6—16 lbs. (2 8-lb. Containers).....	2.50
No. 7—24 lbs. (2 12-lb. Containers).....	3.50

"HUMPTY DUMPTY" EGG CARRIER—Fig. 5. A very light, strong and convenient egg crate and carrier. Made of hard wood slats securely fastened. The lid with handle, springs into position when crate is filled. Collapsible. 12 dozen. 75c. Padcel Post weight, 5 lbs.	\$1.50
No. 2—4 lbs. and 2 doz. eggs.....	2.00
No. 3—4 lbs. and 3 doz. eggs.....	2.25
No. 4—6 lbs. (3 2-lb. Containers).....	2.25
No. 5—12 lbs. (3 4-lb. Containers).....	2.50
No. 6—16 lbs. (2 8-lb. Containers).....	2.50
No. 7—24 lbs. (2 12-lb. Containers).....	3.50

"HUMPTY DUMPTY" EGG CARRIER—Fig. 5. A very light, strong and convenient egg crate and carrier. Made of hard wood slats securely fastened. The lid with handle, springs into position when crate is filled. Collapsible. 12 dozen. 75c. Padcel Post weight, 5 lbs.	\$1.50
No. 2—4 lbs. and 2 doz. eggs.....	2.00
No. 3—4 lbs. and 3 doz. eggs.....	2.25
No. 4—6 lbs. (3 2-lb. Containers).....	2.25
No. 5—12 lbs. (3 4-lb. Containers).....	2.50
No. 6—16 lbs. (2 8-lb. Containers).....	2.50
No. 7—24 lbs. (2 12-lb. Containers).....	3.50

M. & S. EGG BOX—Fig. 8. This is an ideal box for the retail egg trade holding 1 dozen, presenting the goods to the customer in an attractive package with the minimum amount of trouble for the seller. They knock down in very compact shape. 15c per dozen; weight, 2 lbs. \$1.25 for 125; weight, 11 lbs. \$2.25 per pkg. of 250; 1,000 \$8.00.	\$1.25
--	--------

## Oakes Automatic Egg Scales

(Patent Pending)



national departments of agriculture and poultry associations. In addition, thousands of hatcherymen have found that it does not pay to sell eggs weighing less than 22 ounces to the dozen.

Oakes Automatic Egg Scales make egg-grading easy. They are made of metal throughout and are entirely automatic. No. F-54 can be set to grade 18, 20, 22, 23, 24 or 26 ounces to the dozen. No springs. Nothing to get out of order. No weights to get lost. Length 12 1/2 inches.

No. F-54—Capacity, 18 to 26 ounces. Parcel post wt. 1 lb. Each 75c

The practice of sorting eggs by weight has been widely adopted and is strongly recommended by both state and

from laying. Price, 50c a pair (either straight or curved). Parcel Post weight, 3 lbs.

### ANDERSON EGG BOXES

Fig. 11. These are made of corrugated paper and are very strong, intended only for sending of setting eggs.

Fig. 11



One setting—weight, 1 lb. each; 18 lbs. doz..... \$0.25  
Two settings—weight, 2 lbs. each; 28 lbs. doz..... .35  
50-egg size—weight, 4 lbs. each; 40 lbs. doz..... .50

Each. Doz.

\$2.75

.25

4.00

.50

## Chick Boxes



LIVE CHICK SHIPPING BOX—Made of corrugated paper, extensively used, will carry chicks any distance with perfect safety. Are shipped knocked down and take up small amount of space.

Wt. of box.	Size.	Each.	Doz.
25 chicks .....	1	9x11x5 1/2	20c
50 chicks .....	2	18x11x5 1/2	25c
100 chicks .....	3	18x22x5 1/2	30c

## Breeders' Magic Egg Tester

Is now universally used by poultrymen everywhere to select the strongest eggs for hatching BEFORE incubation. Requires no skill nor expense to operate—just a pair of hands and eyes. Tests 400 eggs per hour, and the greatest money saver in the realm of poultry supplies. Fully guaranteed, \$2.50 each.



## Nest Eggs and Wire Nests

These nests are strongly made from coppered wire, reinforced with coppered steel ribs, and will last for years. They are intended to fasten to the wall with screws or screw hooks. There is no room on them for lodgment of lice or vermin of any kind; they are easy to keep clean, and are far superior to wooden boxes. Price, each, 25c; \$2.50 per dozen. Parcel Post wt. 1 lb. each.

Opal Nest Egg—Prices: 5c each; dozen, 40c. Special price on quantities. Weight, 1 dozen, 1 lb.

M. & S. Lime Nest Egg—Will last indefinitely; looks most natural. 5c each; 50c dozen, postpaid.

### INCUBATOR AND BROODER REPAIRS

Incubator Wicks—State sizes wanted. Price, 2 for 5c; doz. 25c, postpaid.

Brooder Wicks—State sizes wanted. Price, 2 for 5c; doz. 25c, postpaid.

Putnam Stove Wicks—2 for 5c. Holder and Wick, 10c.

Putnam Heater Wicks—2 for 5c. Holder and Wick, 10c.

Incubator and Brooder Lamp Burners—For "Mandy Lee," Cyphers, Essex, Prairie State and other makes. No. 2 and 3—Large size, 95c; No. 1 takes 1 in. wick, has large flange, 75c; small size, No. 0, 55c. Mailing weight, either size, 1 lb.

"Zenith" Chimneyless Brooder Lamp Burner—Price, 75c. Mailing weight, 1 lb.

Metal Chimney—To fit above burners. 30c; postpaid, 35c.

## Metal Wafer Thermostat

All brass, fits all makes brooders and incubators.

3-inch ..... 50c

4-inch ..... 80c

5-inch ..... \$1.00

via parcel post, 5c extra.

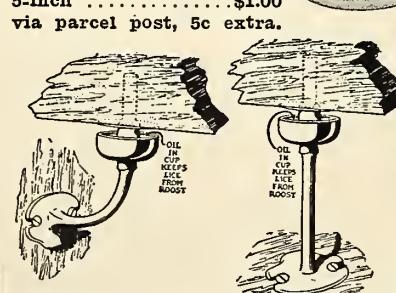


Incubator Lamp Tanks without Burners—small size, \$1.15; medium size, \$1.25; large size, \$1.40. Parcel Post wgt. 3 lbs.

Gas Burner for Incubators—Price, 50c each, postpaid.

### M. & S. LICE PROOF ROOST SUPPORT

These are indispensable in any poultry house, lice and mite are what stop your hens



# Poultry Foods, Tonics, Disinfectants, Etc.

Prices on All Foods Subject to Change Without Notice

**"AMERICAN" TURKEY POWDER**—It is sure to raise your young turkeys to healthy birds. Shipping weight, 2 lbs. Price, 30c.

**ALFALFA CLOVER MEAL**—Rich in protein and especially desirable for young birds. 5c lb.; 100 lbs. \$3.00.

**BARLEY**—Principally fed for making feathers and bone. 5c lb.

**BEEF SCRAPS**—Very rich in protein; 50 to 55 per cent protein, 12 to 15 per cent fat, 1 to 2 per cent fibre. 8c lb.; 10 lbs. 75c; \$5.50 per 100.

**BRAN** (Wheat)—For mash, etc. An excellent egg maker and very nutritious. 5c lb.

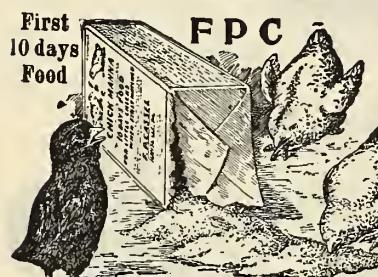
**BUCKWHEAT**—Fed very largely as change of diet. 6c lb.

**BUTTERMILK SEMI-SOLID**—1 gal. can, \$1.00; 5 gal. pail, \$4.15; 140 lb. barrel, these vary in weight, at \$7.00 per 100 lbs.

**CANADA PEAS**—Principally fed to pigeons. 7c lb.

**CHARCOAL**—Three grades, fine, medium and coarse. Disinfects the bowels and tones up the whole system. 1 lb. 8c; 35c for 5 lb.; 10 lbs. 60c; \$2.00 for 50 lbs.; 100 lbs. \$3.50.

**First 10 days Feed**



**CHICK MANNA**—Is a complete food in every respect, requiring nothing more for the first ten days. Price, 1 lb. 15c; 3 lbs. 40c; 5 lbs. 60c; 15 lbs. \$1.65; 100 lbs. \$8.50.

**CORN CHOPS**—Suitable for either mash or feeding little chicks. 5c lb.

**CORN CRACKED**—Carefully sifted; fine or coarse. 1 lb. 5c.

**CORN WHOLE**—5c lb.

**DR. HESS' POULTRY PAN-A-CEA**—Guaranteed tonic and egg producer. 1 1/2-lb. pkg. 25c; 6-lb. pkg. 75c; 12-lb. pkg. \$1.50; 25-lb. pail \$3.00; 50 lbs. \$5.50; 100 lbs. \$10.00.

**GLUTEN MEAL**—For feeding to both poultry and cows. 1 lb. 5c.

**GRIT** (Cockeysville Egg Shell)—Fine, medium and coarse. 5 lbs. 15c; 25 lbs. 50c; 50 lbs. 75c; \$1.25 per 100 lbs.

**GRIT** (Red Cross Health)—For pigeons. 5 lbs. 20c; 10 lbs. 35c; 25 lbs. 65c; 50 lbs. \$1.25; 100 lbs. \$2.25.

**HEMP SEED**—Fed largely to pigeons, also to poultry during winter months. 8c lb.

**OATS HULLED**—A splendid food for young chicks. 5c lb.

**KAFFIR CORN**—Makes a fine food for pigeons. also used for poultry. 5c lb.

**LINSEED MEAL**—For feeding with the regular ration during the moulting period. 5c lb.

**POULTRY LITTER**—Fine for scratch pens. absorbs moisture, lasts long time. Peck 35c; 1/2 bus. 60c; 1 bus. \$1.00; large bales, \$3.50.

**MARGARET MAHANEY BLACK HEAD REMEDY PILLS AND SALVE**—For turkeys; sure cure. Price, \$1.00, postpaid.

**MIDDINGLINGS**—An excellent change in combination of a mash. 5c lb.

**MILLET** (for feeding)—Highly nutritious and used extensively for pigeons and young chickens. 6c lb.

**OATS**—Splendid for sprouting. 5c lb.; **Rolled Oats**, 6c per lb.

**OAT MEAL** (Pin Head)—An excellent food for young chicks after they are a few days old. 6c lb.

**OATS GROUND**—This makes an excellent dry feed when combined with other similar ration. 5c lb.

**OYSTER SHELLS**—Fine and coarse. 5 lbs. 15c; 50c for 25 lbs.; 50 lbs. 75c; \$1.25 per 100 lbs.

**OCULUM**—Beneficial for fowls in bowel trouble, roup, diarrhoea and sore head. Price, 50c.

**PIGEON FOOD (PRATTS)**—Containing the best of grain. No corn. 6c lb.; 100 lbs. \$4.50.

**SUNFLOWER SEED**—For poultry, parrots, etc., 10c lb.; 10 lbs. 80c.

**TOBACCO STEMS**—1 lb. 5c; 50 lbs. \$1.50; 100 lbs. \$2.50.

**TOBACCO POWDER AND TONIC**—For the elimination of large and small round worms in poultry and as a tonic. 1b. 25c; 10 lbs. \$1.50; 25 lbs. \$2.50; 100 lbs. \$4.50.

# Conkey's

THE ORIGINAL BUTTERMILK FEED  
Prices Subject to Change.

## For Baby Chicks



Conkey's Buttermilk Starting Feed was the first commercial feed containing buttermilk—that is why we call it the only ORIGINAL buttermilk starting feed.

Conkey's did not "just happen"—it is a scientifically-balanced feed as clean and wholesome and as conscientiously prepared as "infant food." Selected, plump grains, ground to proper fineness, are combined with other ingredients so as to make the feed readily digestible, palatable and nutritious. TASTE it, SMELL it, that's the way to judge a chick feed.

Guaranteed Analysis—Crude Protein, 14%; Crude Fibre, 4%; Crude Fat, 3%; Nitrogen Free Extract, 56%; Carbohydrates, 60%.

Ingredients—Semi-Solid Buttermilk, pinhead oatmeal, a special wheat middlings, whole corn meal, corn feed meal, granulated bone and blood flour.

Packed in convenient sizes from 2 1/2 lbs. up. Buy 1 1/2 lbs. for every chick.

Price—2 1/2 lbs. 20c; 5 lbs. 40c; 10 lbs. 65c; 25 lbs. \$1.50; 100 lbs. \$5.00. Not postpaid.

## Pratt's Egg Preserver



Put your eggs down in the spring and summer when they are cheap and keep them fresh for ten months. One gallon makes sufficient solution for 50 dozen. Do not trust eggs to water glass of inferior strength. Buy PRATTS EGG PRESERVER, the pure, strong kind. It will stand the maximum amount of dilution with water. Price, 1 quart, 35c; 1 gallon, \$1.00.

**EGG-O-LATUM** is a white cerate or ointment. Rubbed over the shell of the egg it seals every pore so that nothing can get in or out. The egg does not dry out. No air, moisture, odors, or germs can get in. The egg is preserved in all its original freshness. The application of Egg-O-Latum is easily and quickly done. A dozen per minute. Fresh eggs must be used, perfectly unfertilized. Per jar, 50c; 55c postpaid. Enough for 50 dozen eggs.

### EGG-O-HATCH

Egg-O-Hatch is a dry powder. It is mixed with water and the resulting liquid is applied to eggs two or three times during the 21 days of incubation. It is a liquid that does three things—supplies oxygen for the growing chick; absorbs carbon dioxide given off, makes more brittle and porous the shell of the egg. 50c per pkg.; 55c postpaid.

## Bird and Fish Foods, Catnip Mouse

	Lb.	Lb.	
Canary Seed	1.5c	Thistle	45c
Bird Rape	1.5c	Sunflower	10c
Millet	.08c	Hemp Seed	.08c
Poppy or Maw	30c	Mixed Bird Seed	.15c

Sunflower California, the best, 15c

Flax Seed.....25c

Cuttle Fish Bone—Price, 50 each; 50c lb.

"Gloria" Song-Restorer Food—This is scientifically proportioned and has been fed with great success. Price, 1 lb. 25c

For-get-me-not, Wild Bird, Seed Mixture—Feed the little songsters in the winter time. 15c lb.

Bird Sand for Canaries and other birds. Very necessary. What we offer is sifted and free from all dust. Carton, 15c per lb. Parcel Post weight, 3 lbs.

Fish Food (Natural)—15c, postpaid.

Catnip Mouse—Make kitty happy. 15c, postpaid.



**Pratts**

## "QUALITY" POULTRY FEEDS

Backed by over 50 years' experience with poultry, with every ingredient carefully selected and processed, PRATTS FEEDS are scientifically and practically correct. There is a Pratt Feed for every poultry need and every age of fowl. Use "Pratts" from the first feed and follow the Pratt system if you want real success and profit.

Start your chicks on

### Pratts Buttermilk Baby Chick Food

the original "baby food for baby chicks." It has taken all the guess, worry and loss out of raising baby chicks. Use it the first month to six weeks and watch results. Chicks grow strong,

### Pratts Buttermilk Laying Mash and Pratts Scratch Feeds

**PRATTS BUTTERMILK BABY CHICK FOOD.** Pkg. 25c and 50c, postpaid 32c and 60c; 5-lb. bag, 40c, postpaid 50c; 10-lb. bag, 65c, postpaid 80c; 14-lb. bag, \$1.00, postpaid \$1.25; 25-lb. \$1.50, postpaid \$1.80; 50-lb. \$2.75, postpaid \$3.30; 100-lb. \$5.00.

**PRATTS BUTTERMILK GROWING MASH.** Lb. 6c; 100 lbs. \$4.25.

**PRATTS BUTTERMILK VICTORY LAYING MASH.** Lb. 5c; 100 lbs. \$4.00.

**PRATTS VICTORY CHICK SIZE SCRATCH FEED.** Lb. 6c; 100 lbs. \$3.75.

**PRATTS INTERMEDIATE SIZE SCRATCH FEED.** Lb. 6c; 100 lbs. \$3.75.

**PRATTS LARGE SIZE SCRATCH FEED.** Lb. 5c; 100 lbs. \$3.25.

Pratts Poultry Regulator (For Health and Eggs)

—Use it the year 'round for breeders, layers and growing stock. Pkg. 25c and 50c, postpaid 33c and 61c. Parcel post weight, 2 and 5 lbs. 12-lb. pail, \$1.65, postpaid \$1.83; 25-lb. pail, \$3.00, postpaid \$3.31; 100-lb. drum, \$10.00.

Pratts White Diarrhea Tablets in the drinking water for the first couple of weeks. Proven by years of success, it will save you many dollars and chicks. Guaranteed. 25c and 50c packages.

Pratts Special Compound—For indigestion, sour crop, diarrhea and bowel troubles, commonly called CHOLERA. Gives quick, effective relief. Easy to use. Certain in action. Guaranteed. 25c and 50c packages.

Pratts Red Mite Special—Paint or spray around the poultry house, on nests, roosts, etc., it is sure death to all mites and lice. Powerful, efficient, lasting. Use it where others have failed. It will surprise you. 50c a quart; 90c a half gallon; \$1.50 a gallon, not postpaid.

Pratts Poultry Disinfectant insures poultry health. It is a cheap, powerful, non-poisonous disinfectant. Quart, 55c; half gallon, 90c; gallon, \$1.50, not postpaid.



### Dog Foods, Remedies, Etc.

Look up Peerless Dog Food—A food for dogs and puppies. The best dog food on the market in the shape of meal; can be fed dry or wet. We have hundreds of customers who are feeding this highly nutritious food. Price of Food, 1 lb. 10c; 5 lbs. 45c; 10 lbs. 85c; 100 lbs. \$6.75. Price subject to change.

Spratt's Meat Fibrine Vegetable Dog Cakes—A staple food for all breeds; too well known to be described. Price, 1 lb. 15c; 100 lbs. \$13.50. Price subject to change.

Biscuits—The standard puppy food. 1 lb. 15c; 100 lbs. \$14.00.

Spratt's Oval—The Pocket Dog Biscuit. 40c, postpaid 49c; 100 lbs. \$13.50.

Spratt's Fibro—An appetizing and flesh-forming food for puppies and dogs out of condition. Pkg. 40c, postpaid 49c; 100 lbs. \$15.00.

Spratt's Charcoal Biscuit—40c pkg., postpaid 49c.

Spratt's Cod Liver Oil Biscuit—40c pkg., postpaid 49c.

Spratt's White Dog Soap—Death to fleas. Price, 25c; postpaid 30c.

Spratt's Cooling and Alterative Tablets—60c. Postpaid.

Spratt's Tonic and Condition Tablets—60c. Postpaid.

Distemper Tablets for Toy Dogs and Puppies—\$1.00. Postpaid.

Vermifuge Capsules for Toy Dogs and Puppies—60c. Postpaid.

Spratt's Constipation Tablets—60c.

Spratt's Diarrhoea Tablets—60c, postpaid.

Spratt's Distemper Tablets—\$1.00. Postpaid.

Spratt's Constipation Tablets—60c. Postpaid.

Spratt's Worm Capsules—60c.

Spratt's Mange Medicine—75c; postpaid 85c.

### Sergeant's Dog Remedies

Distemper Medicine—Price, \$1.20. Postpaid.

Mange Medicine—Price, 65c; 75c postpaid.

Condition Pills—Price, 60c. Postpaid.

Sure Shot Capsules—Price, 60c. Postpaid.

Sure Shot Liquid—Price, 60c.

Arsenic and Iron Pills—Price, 60c. Postpaid.

uniform, vigorous and sturdy and are free from leg weakness, "pasting up" and digestive troubles.

Equally good for young turkeys, guineas, ducks, pheasants and game birds. A perfect "baby food" for young fowls.

In packages and 5, 10, 14, 25, 50 and 100-lb. bags.

After the little fellows are about a month old switch them to

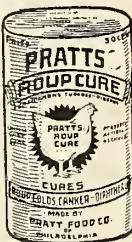
### Pratts Buttermilk Growing Mash

This splendid mash for the growing youngsters supplies an abundance of every element needed for making bone, muscle, feathers and health. Insures vigor and quick, uniform growth. When they are matured give them

#### PRICES

ON

PRATTS GRAIN  
AND  
MASH FEEDS  
SUBJECT TO  
MARKET CHANGES



Pratts Roup Tablets (or Powder)—Save your birds from heavy roup losses. Guaranteed to give satisfaction or your money back. 25c and 50c packages.

Pratts Gape Compound an effective, easy remedy that will prevent further losses and save the sick chicks. Try it. 25c and 50c packages

Pratts Bronchitis Tablets — 25c and 50c a box.

Pratts Head Lice Ointment, 30c.

Pratts Lice Salve—25c and 50c.

Pratts Scaly Leg Ointment—30c and 60c a box.

Pratts Condition Tablets—25c and 50c boxes.

Pratts Sore Head Chicken Fox Remedy—30c and 60c packages.

Pratts Powdered Lice Killer is powerful, economical, non-poisonous and non-irritating. For use on poultry, in dustbaths, nests, etc. Ridsof poultry of all ages, dogs, cats, horses, cattle, hogs and sheep of lice, ticks and other insect pests. Can also be used on vines, plants and flowers. In sifter cans, 25c and 50c. Postpaid, add 5c & 10c.

If wanted by parcel post, be sure to include postage in your remittance if not marked postpaid.

Dog Rub (a Liniment)—Price 60c; 70c postpaid.

Canker Wash—Price, 60c; 70c postpaid.

Cough Medicine—Price, 60c; 70c postpaid.

Well Mouth (Sore Mouth and Black Tongue)—Price 60c; 70c postpaid.

Eye Wash—Price, 60c; 70c postpaid.

Tape Worm Medicine—Price, 60c. Postpaid.

Rheumatism Pills—Price, 60c. Postpaid.

Constipation Capsules—Price, 60c. Postpaid.

Skip-Flea Soap—Price, 25c. Postpaid.

Carbolic-Tar Soap—Price, 25c. Postpaid.

Send for special book on dogs—Spratts, Sergeants and Gloves.

### Glover's Dog Medicines A Remedy for Every Disease. DOG BOOK ON REQUEST.

#### Pure Cedar Bedding

FOR USE WITH DOGS, POULTRY AND PETS  
A Preventive of Disease and Vermin

NO FLEAS, NO VERMIN, NO DISEASE where Cedar Bedding is used.

ENDORSED BY DOG HOSPITALS and large kennels of the country and by many Poultry Fanciers.

#### PRICES OF CEDAR BEDDING

100-lb. bales . . . . .	\$6.50
50-lb. bales . . . . .	3.75
25-lb. bales . . . . .	2.25
1-lb. bales, postpaid . . . . .	.40

KEN-L-RATION—THE DOG FOODS SUPREME (in cans)

Ken-L-Ration is composed of clean wholesome meat, the best grade of cereals and Norwegian Cod Liver Oil in exactly the right proportions to make a perfect balanced ration. 1-lb. can 18c; 3 lbs. 50c. If wanted by mail, add postage.

PUP-E-RATION is the perfect puppy food. Very rich in protein, calcium phosphate, organic iron, cod liver oil and marrow fat.

1-lb. can, 20c. If wanted by mail, add postage.

# Dethol

IMPROVED

Destroys all insects. It is stainless; can be sprayed direct on poultry. A thorough disinfectant.  $\frac{1}{2}$  pt. 50c; 1 pt. 75c; 1 qt. \$1.25; 1 gal. \$4.00. Combination Sprayer and Pint of Dethol, \$1.00. Being a liquid, it cannot be sent by parcel post; express only.



## Fly-No-More

Banishes flies, mosquitoes, fleas, ants, bedbugs, roaches, etc. 16 oz. 65c. Not mailable.

## Conkey's Roup Remedy

Prices—Pkg. 25c, 50c, \$1.00, postpaid; 1½-lb. can, \$2.50, postpaid; breeder size (5-lb. can), \$5.50, postpaid.

Conkey's Roup Pills—Pkgs. 25c, 50c, \$1.00, postpaid; breeder size (1,000 pills), \$2.75; postpaid, \$2.85.



## Conkey's White Diarrhea Remedy

As a preventive of bowel troubles, White Diarrhea and other digestive complaints, this remedy has given great satisfaction for many years.

Prices—25c, 50c, \$1.00, postpaid. Breeder size (1,200 Tablets), \$3.75; postpaid, \$3.85.

Conkey's Cholera Remedy—Pkgs. 25c, 50c, \$1.00, postpaid; breeder size (5 lbs.), \$2.50, postpaid.

Conkey's Poultry Laxative—Pkgs. 25c, 50c; or 30c, 55c, postpaid; breeder size (5 lbs.), \$2.75; or \$2.90, postpaid.

Conkey's Canker and Bronchitis Remedy—Pkg. 50c; pt. \$1.20; qt. \$2.00; gal. \$7.00. All sent carrying charges extra.

Conkey's Sorehead Remedy—Pkgs. 25c, 50c; or 30c, 55c, postpaid; breeder size (1 lb. salve, 5 lbs. powder), \$3.50; \$3.65, postpaid; 10 lbs. powder only, \$3.50; \$3.65, postpaid.

Conkey's Gape Remedy—Pkgs. 25c, 50c; or 30c, 55c, postpaid.

Conkey's Poultry Conditioner—Pkgs. 25c, 50c; or 30c, 55c, postpaid.

Conkey's Limberneck Remedy—Pkg. 50c; or 55c, postpaid.

Conkey's Blackhead Remedy—Pkg. 50c; or 55c, postpaid.

Conkey's Lice Fix—Pkgs. 25c, 50c; or 30c, 55c, postpaid.

Conkey's Head Lice Ointment—Pkgs. 10c, 25c; or 15c, 30c, postpaid.

Conkey's Lice Powder—Pkgs. 35c, 75c; pails 12 lbs. \$2.60; 25 lbs. \$5.00. Parcel post, express or freight extra.

Conkey's Scaly Leg Remedy—Pkg. 25c, or 30c, postpaid.

Conkey's Poultry Worm Remedy—Pkgs. 25c, 50c; or 30c, 55c, postpaid; breeder size (5 lbs.), \$2.75; or \$2.85, postpaid.

Conkey's Stock Tonic—Pkgs. 25c, 50c, \$1.00; pails, 12 lbs. \$2.10; 25 lbs. \$3.45; bags, 50 lbs. \$5.25; 100 lbs. \$10.00. Parcel post, express or freight charges extra.

Conkey's Poultry Tonic—Pkgs. 1½ lbs. 25c; ¾ lbs. 50c; 7 lbs. \$1.00; pails, 12 lbs. \$1.60; 25 lbs. \$3.00; bags, 50 lbs. \$5.00; 100 lbs. \$9.50. Parcel post, express or freight charges extra.

Conkey's Y. O. Yeast With Cod Liver Oil—1 lb. 65c; 2 lbs. \$1.15; 5 lbs. \$2.50; 25 lbs. \$11.25; 50 lbs. \$20.00; 100 lbs. \$32.50.

Oculum—A remedy and preventive for most poultry diseases, also tonic. 50c.

Cholerine—One of the best poultry tonics and general remedy known. Pkg. 50 tablets 65c; 100 tablets \$1.00, postpaid. In liquid form, 16 oz. 65c; 1 qt. \$1.00; 1 gal. \$2.50. Liquid not mailable.

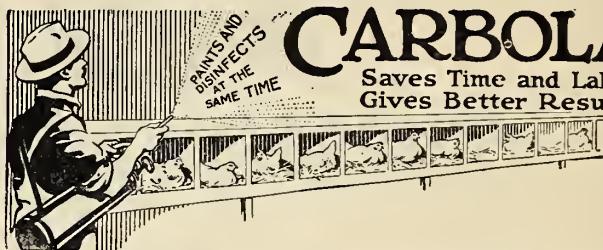
LEE'S LICE KILLER — Liquid—Qt. 60c; 2 qts. 90c; 1 gal. \$1.50.

LEE'S GERMOCIDE ZONE — The best tonic for poultry of all kinds. Cures roup, cholera, and other poultry diseases. 1 gal. \$4.50; 32-oz. bottle, \$1.50; 12-oz. bottle, 75c; 4-oz. bottle, 40c; in tablet form, 65c and 25c, postpaid.



# CARBOLA

Saves Time and Labor  
Gives Better Results



**CARBOLA**—The Disinfectant That Paints—Use it instead of Whitewash. Put on with a brush or sprayer—A snow-white cold water paint that will not blister, flake or peel off. combined with a germicide twenty times stronger than carbolic acid, but neither caustic nor poisonous.

Particularly good for use in stables, cow barns, chicken coops, dairies, hog pens, creameries, cellars, factories, outbuildings. Prices: 5 lbs. 75c, makes 2½ gals.; 10 lbs. \$1.25; 50 lbs. \$5.00.

Zelio — For killing rats, mice and other rodents. 2 oz. 50c; 8 oz. \$1.50.

**BARIUM CARBONATE**—A tasteless and odorless mineral recommended by the U. S. Government for exterminating rats and mice. It was used for cleaning Baltimore of this pest. 25c pkt. \$2.50 per doz.

## Common Sense Exterminator



"Common Sense" has been on the market for over a quarter century. It does the work or we would not handle it.

Get a can NOW and if you do not find it entirely satisfactory, we will refund your money.

## RAX IS NOT A POISON



Harmless to human beings, animal pets, poultry and birds, but a virus deadly to rats and mice. May be used anywhere with absolute safety.

It gets them all and is therefore the cheapest rat exterminator on the market at any price.

## How to Use Rax

Simply add water to the bottle and shake well. Moisten (don't soak) bait stale bread, crackers, cheese—with the mixture and place easily available to holes and runways where rats and mice will readily eat it.

Directions are furnished with each package. One bottle is enough for an ordinary house; allow one bottle to each 500 feet of floor space in barns, warehouses, etc.

Price: 75c per bottle, postpaid.

**CARBOLINEUM**—Will keep your Poultry House clean and free from Mites, Lice and Ticks. It is valuable for the fruit grower as a bark treatment. The best wood preserver known and of great benefit for the farmer, for dipping seed corn, to keep the crows from eating it. Gallon \$1.50. Cannot be sent parcel post.

# ZENOLEUM

"Zenoleum" Disinfectant, Lice Killer and Animal Dip—We have been selling this article for years, and find it most

satisfactory. One gallon makes 100 gallons of fluid. 8 oz. 35c; 1 pt. 50c; 1 qt. 75c; 2 qt. \$1.25; 1 gal. \$2.00; 5 gal. \$8.00. Liquid.

**ZENNERGY**—Wonderful poultry tonic. Price, \$1.00, postpaid.

**GERMO CREOSOTE DISINFECTANT AND DIP**—1 qt. 50c; 2 qts. 90c; 1 gal. \$1.50.

Gentlemen:

The 600 chicks which I received from you are doing nicely; only one is dead. They were a very nice lot of chicks and I am very well pleased with them.

Yours truly,  
GEORGE H. LONG,  
Arnold, Md.

## M. & S. WONDER BRED CHICKS

Are hatched to live and mature to big fine healthy specimens. We are this season hatching thousands weekly, and are better prepared than ever to fill wants of patrons.

We advise placing orders ahead of time, as the demand for our M. & S. WONDER BRED CHICKS is always great. We will start deliveries the last week in February and continue until the first of June on all popular breeds.

### LIST OF M. & S. WONDER BRED CHICKS Prices for February and March Subject to Change Without Notice

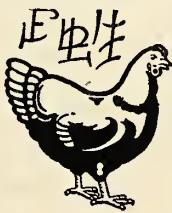
Special prices on 500 and over lots.

	100	50	25	12
Single Comb White Leghorns.....	\$15.00	\$8.00	\$4.25	\$2.50
Single Comb Brown Leghorns.....	15.00	8.00	4.25	2.50
Single Comb Buff Leghorns.....	15.00	8.00	4.25	2.50
Single Comb Black Minorcas.....	18.00	9.50	5.00	3.00
Single Comb Mottled Anconas.....	18.00	9.50	5.00	3.00
Barred Plymouth Rocks.....	18.00	9.50	5.00	3.00
Rhode Island Reds.....	18.00	9.50	5.00	3.00
White Wyandotte.....	18.00	9.50	5.00	3.00
White Plymouth Rocks.....	20.00	10.50	5.50	3.25
Buff Plymouth Rocks.....	20.00	10.50	5.50	3.25
Bird Orpington .....	20.00	10.50	5.50	3.25

April prices \$1.00 per 100 less than February and March.  
May and June prices \$1.00 per 100 less than April.  
Small quantities accordingly. Prices Subject to Change.

## DON SUNG

Chinese for Egg-Laying  
Makes Hens Lay in Any  
Weather



### COSTS NOTHING TO TRY

Every poultry raiser is invited to try Don Sung—at our risk. Separate 15 hens and give them Don Sung for one month. Then watch results. If Don Sung pays you, keep on with it. If you don't think it has paid you, tell us and back comes your money. No argument to it. Don Sung is guaranteed—try it, at our risk. Prices of Don Sung Tablets: Small size, 50c; large size (3 times the 50c size), \$1.00; Special Size (6 times the \$1.00 size), \$5.00. We can also supply POWDERED Don Sung (for large flocks) at these prices: 3 lbs. (same quantity as \$5.00 package of tablets), \$5.00; 10 lbs. \$10.00; 25 lbs. \$20.00; 50 lbs. \$35.00; 100 lbs. \$65.00. All postpaid.

## AVICOL

For White Diarrhea  
in Chicks and Black-  
Head in Turkeys

### USE AVICOL FOR PREVENTION AND TREATMENT

Don't sit back and say your loss of baby chicks can't be stopped. It CAN BE STOPPED—easily, quickly, and at almost no expense. All you need do is drop an Avicol tablet in the water occasionally. Avicol is a special bowel antiseptic. It stops disease and prevents its spread by destroying germ life and helping the chick withstand infection. Price, 50c; Special Large Size (almost 3 times 50c size), \$1.00. Postpaid.

## Talcimized Sodium Fluoride Kills Chicken Lice

Talcimized Sodium Fluoride (called "T. S. F.") is made especially for poultry use. It is less irritating than straight Sodium Fluoride, penetrates the plumage more thoroughly, and comes packed in a moisture-proof, shaker-top package bearing the U. S. Government's directions for using. It is convenient—never cakes or loses strength—and always does the work. Full directions are on every can of T. S. F. for use in three ways, either by dip, dusting or pinch methods. Prices—Small Size (for 50 chickens), 35c, postpaid 40c; Large Size (twice the 35c size), 60c, postpaid 70c; Special Size (5 times 60c size), \$2.50, postpaid \$2.65.

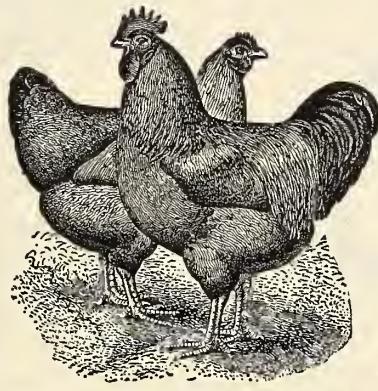
## Roup-Over

"The Over-Night Roup Remedy" For Roup, Canker and Colds. Use Roup-Over at the very beginning of colds in your flock. It clears the air passages and brings relief with magic quickness. Easily used, both for individual treatment and in the drinking water for flock prevention. Leading poultry raisers everywhere now use Roup-Over, the over-night roup remedy. It's so easy! So sure! There's no other remedy like it—nothing "just as good." Have a bottle ready to use when you need it. Price, 50c; Large Size (3 times 50c size), \$1.00.

### NOTICE!

Due to the close margin on which baby chicks, eggs and all live stock is sold we are obliged to sell this commodity for spot cash only. All orders should be accompanied by cash. One-fourth (25 per cent) of the amount of the order should accompany all orders for baby chicks for future delivery.

We exercise the greatest of care to send out vigorous and healthy chicks, but due to the many causes which hinder the growth and health of chicks, it is impossible for us to guarantee their development.



Single Comb Rhode Island Reds

## Single Comb Rhode Island Reds

These splendid fowls have a great many admirers, and are one of the best all-around fowl.

## Single Comb Leghorns

The most popular fowl of the day. They grow very fast, often laying when only four or five months old; non-setters. Three varieties—White, Brown, and Buff Leghorns.



Single Comb White Leghorns

## Plymouth Rocks

The best general purpose fowl; good layers, splendid breeders, are hardy and vigorous. Three varieties: Barred, White, and Buff Rocks.



Barred Plymouth Rocks

## Blood Tested Baby Chicks

We can furnish these in the above three varieties. No order taken for less than 50 of any variety. Particulars and prices on request.

## Poultry and Eggs

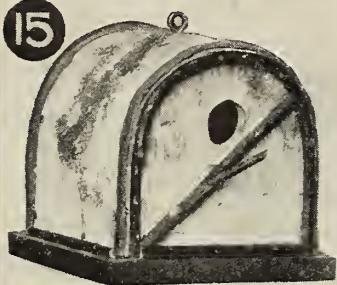
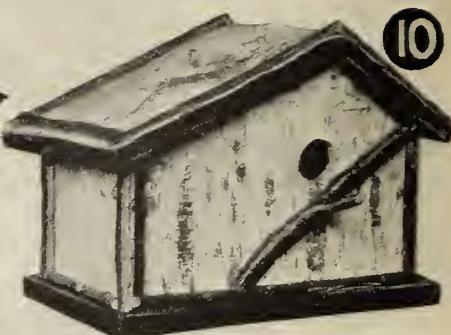
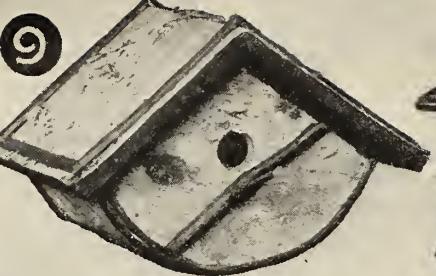
We can furnish most all popular breeds. Let us know your wants.



WALKO WHITE DIARRHEA, ROUP AND CHOLERA TABLETS—Price 50c and \$1.00 pkg, both postpaid.

WALKO EGG MAKER (Tonix)—Price, 50c and \$1.00; postpaid, 60c and \$1.15, respectively.

WALKO SPECIAL LICE POWDER—Price, 50c; postpaid, 60c.



**Birds are great destroyers of insect life. Put up one or more of these attractive Bird Houses, to entice the birds to your surroundings**



No. 1—1 Apt. Blue Bird House. \$2.25; postpaid \$2.40.

No. 2—2 Apt. Blue Bird House. \$2.50; postpaid \$2.65.

No. 3—2 Apt. Octogon Swallow House. \$4.50; postpaid \$4.75.

No. 4—Woodpecker and Flicker House. \$4.75; postpaid \$5.00.

No. 5—Robin Shelter House. \$2.75; postpaid \$2.90.

No. 6—Feeding Station House. \$2.00; postpaid \$2.15.

No. 7—Round Log Wren House. \$1.00; postpaid \$1.10.

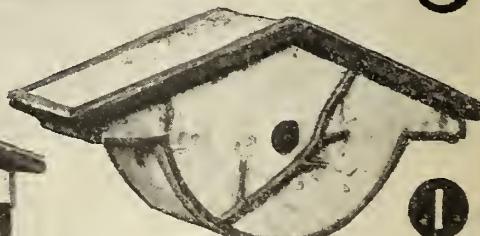
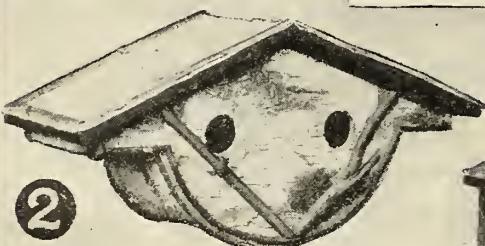
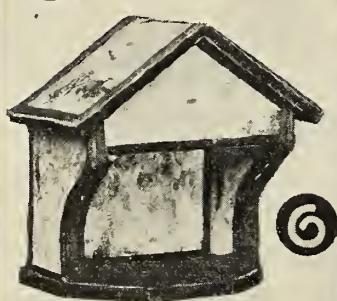
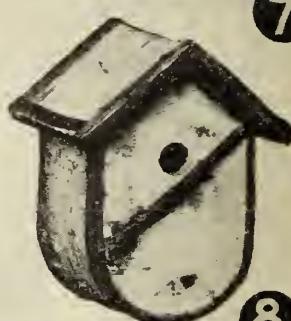
No. 8—Long Oval Wren House. \$1.50; postpaid \$1.60.

No. 9—Small Oval Chickadee House. \$1.50; postpaid \$1.60.

No. 10—Shanty Wren House. \$1.50; postpaid \$1.60.

No. 15—Circle Top Wren House. 90c; postpaid, \$1.

No. 11—24 Apt. Martin House—a prize winner. \$15; postpaid \$15.50.



## **FOR M. & S. SEEDS, BULBS, PLANTS and POULTRY SUPPLIES**

THE MEYER SEED CO., 34-36 LIGHT ST., BALTIMORE, MD.

Kindly write name and address plainly, print preferred.)

**DATE**..... 192 .....

**SHIP TO.....** **P. O. or  
R. F. D. ADDRESS.....**

P.<sub>2</sub>O<sub>5</sub> OF

**R. F. D. ADDRESS.**

C/O..... **FREIGHT or**  
EXPRESS ADDRESS.....

## FREIGHT or

**EXTRA** .  
**EXPRESS ADDRESS**

**SEND BY.....** **STATE.....**

**STATE**

**CHARGE TO** ..... **SUPERINTENDENT'S or  
GARDENER'S NAME** .....

SUPERINTENDENT'S or  
GARDENER'S NAME.....

**CHARGE ADDRESS.....**

**AMOUNT  
ENCLOSED**      **STAMPS**      **M. O.**      **CHECK**      **CASH**

DON'T  
WRITE HERE

SPEC. TERMS

Filled by	Double Checked by	Shipped by	Notified	SPEC. TERMS
Date	Date	Date	Date	ORDER No.
DO NOT FILL OR SHIP UNLESS MARKED PAID, OR CHARGE AND REGISTERED				

The Meyer Seed Co. endeavor to send out only the very best quality of Seeds, Bulbs and Plants, but cannot guarantee results or crops. If customers do not accept goods on the above conditions they can be returned to us at once. No plants sent C. O. D.

## SPECIAL NOTICE

**It is always best to write letters and inquiries on a separate memorandum. NOT on order sheets.**

OVER



SPECIAL OFFER

# M. & S. DAHLIA FLOWERED ZINNIAS

Seven 20c Pkts. (Separate Colors), \$1.00 Postpaid

See Names and Description of Same Below



M. & S. Dahlia  
Flowered Zinnia  
**Dream.**

**Crimson Monarch**—By far the largest and best of the red shades; plants very vigorous.

**Dream**—A fine, deep lavender turning to purple, a new, desirable shade in Zinnias.

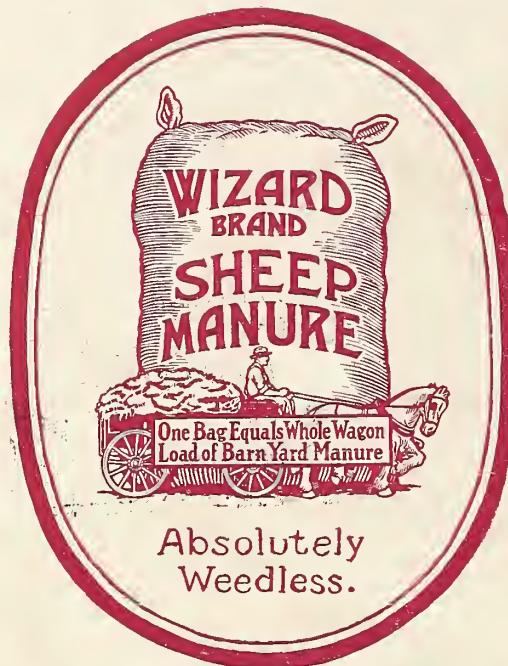
**Exquisite**—One of the most pleasing in the collection; truly Dahlia-flowered as regards form and size; color, light rose, with deep rose center.

**Golden State**—A very rich orange yellow; yellow in the bud, turning to an attractive orange when in full bloom.

**Purple Prince**—A fine, deep purple, large and well formed.

**Oriole**—One of the most beautiful of its class; an immense orange and gold bi-color, changing slightly as it ages, but at all times worthy of the beautiful bird for which it was named.

**Polar Bear**—A very large pure white; the best white yet seen in Zinnias.



# Makes All Plants Grow!

Wizard will make your lawn and garden the envy of your neighborhood. It is easy to use, free from straw and rubbish and absolutely weedless. Makes hard, wornout soils rich and fertile. Supplies the humus and natural plant food that puts new beauty into all plants. Let Wizard help you get results.

## Best Fertilizer for Lawns and Gardens Because Manure Builds Up the Soil



**For Vegetables and Fruits  
Use Wizard Brand Sheep Manure.**



**For Lawns and Flowers  
Use Wizard Brand Sheep and Cattle Manure.**

Few fertilizers or plant foods have the lasting soil improving qualities of Wizard Sheep and Cow Manures. Everybody can get results with Wizard because it is safe to use and will not burn plants.

**Lawns and Gardens.** Wizard produces thick, velvety, green lawns of lasting beauty. It promotes luxuriant foliage and a wealth of vivid colored flowers. Fine for vines, shrubs and trees. Apply 6 to 10 lbs. to 100 sq. ft. and rake into the surface soil. On established lawns merely broadcast Wizard like seed at the same rate. Try Wizard Cow Manure on your roses.

**Vegetables and Fruit.** Every gardener knows that there is nothing better than manure to produce big crops of crisp, tender vegetables. Wizard will insure profitable crops for the early market. Use 1,000 to 1,500 lbs. per acre.

**Florists.** The florist will find Wizard Manures of highest quality, safe and dependable for all crops grown under glass.

**Wizard Brand Cow Manures.** Shredded Cow Manure is unexcelled for mulching roses and for all plants requiring a cool, slow acting manure. It is especially valuable for binding loose, sandy soils. Pulverized Cow Manure is best for mixing with bench and potting soils and liquid manuring.

### PRICES

**WIZARD BRAND SHEEP MANURE**—Apply 1,000 lbs. per acre. For garden, lawn or greenhouse use. This is where you get a whole cart load of manure in a 100-lb. bag at a much lower figure. 2 lbs. 15c; 5 lbs. 30c; 10 lbs. 50c; 25 lbs. \$1.00; 50 lbs. \$1.75; 100 lbs. \$3.00; 500 lbs. \$13.50; 1,000 lbs. \$25.00; per ton, \$47.50.

**WIZARD BRAND COW or CATTLE MANURE**—Convenient to handle, making it possible for everyone to get this usually scarce article at all times. This is where you get a wagon load of manure in a 100-lb. bag. 2 lbs. 15c; 5 lbs. 30c; 10 lbs. 50c; 25 lbs. \$1.00; 50 lbs. \$2.00; 100 lbs. \$3.50; 500 lbs. \$16.25; 1,000 lbs. \$30.00; per ton, \$55.00.

**SEND FOR FREE CIRCULAR**